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PERSONAL.

Mr. W. B. Wilson has been appointed General Superintendent of the Northwestern R. R. of South Carolina.

Mr. E. B. Coolman, until recently City Engineer of New Albany, Ind., has accepted a position as Civil Engineer at Carmi, Ill.

Mr. H. C. Brown has been appointed General Manager of the Searcy & Des Arc Ry., with headquarters at Searcy, Ark., succeeding Mr. C. E. Gibbs, resigned.

Mr. A. N. Bullitt has been appointed Chief Engineer of the Arkansas & Choctaw Ry., with headquarters at Hugo, Ind. Ter., succeeding Mr. F. W. Valliant, resigned.

Mr. H. Worsdell, Assistant General Manager of the North Eastern Ry. of England, has been appointed Chief Assistant Mechanical Engineer of the Great Central Ry.

Mr. H. W. Henderson has been appointed Superintendent of the Utah Division of the Oregon Short Line R. R., with headquarters at Salt Lake City, Utah, succeeding Mr. Jos. H. Young, resigned.

Maj. Geo. McC. Derby, Corps of Engineers, U.S.A., engineer-in-charge of the Fourth Mississippi River District, at New Orleans, La., has been ordered to Louisville, Ky., relieving Maj. E. H. Ruffner.

Mr. Peter Eyermann, Chief Engineer of the Benrather Maschinenfabrik Actien Gesellschaft, near Dusseldorf, Germany, is now in this country, it is said for the purpose of purchasing machinery.

Mr. Chas. H. Davis, formerly a Civil Engineer on the Baltimore & Ohio R. R., has been appointed assistant chief inspector of mill material at the Homestead (Pa.) Steel Works, for the United States Government.

Mr. H. A. Sumner, formerly with the Chicago, Rock Island & Pacific Ry., has been appointed Chief Engineer of the Denver, Northwestern & Pacific Ry., to be constructed from Salt Lake City to the Pacific Coast.

Mr. P. Z. George has resigned his position as Superintendent of the Vicksburg R. R., Power & Mfg. Co., of Vicksburg, Miss., and has formed a partnership with A. M. Lockett & Co., Engineering Contractors, of New Orleans.

Mr. Wm. B. Cogswell, Managing Director of the Solvay Process Co., of Syracuse, N. Y., was married to Miss Cora Browning, on April 30, in New York city. Announcement of Mr. Cogswell's marriage was made on Aug. 2. He is now in Europe and will sail for home on Aug. 7.

Mr. Chas. M. Mills, M. Am. Soc. C. E., resigned on July 14 as Assistant Engineer in charge of Bridge Design and Construction, Bureau of Surveys, Philadelphia, to accept the position of Principal Assistant Engineer, Subway and Elevated R. R. Construction, with the Philadelphia Rapid Transit Co.

Mr. S. M. Swaab, Assoc. M. Am. Soc. C. E., has resigned his position as First Assistant Engineer on the Improvement, Extension and Filtration of the Water Supply of the City of Philadelphia, Pa., and has accepted that of Assistant Engineer with the Philadelphia Rapid Transit Co.

Mr. H. F. White, Chief Engineer of the Burlington, Cedar Rapids & Northern Ry., has been appointed Engineer of Maintenance of Way of the Northern Division of the Chicago, Rock Island & Pacific Ry., which road has acquired the B., C. R. & N. Ry. Mr. Garrett Davis, Assistant Chief Engineer, and Mr. Charles McEniry, General Roadmaster of the old road, have been appointed as Principal Assistant Engineer of Maintenance of Way, and General Roadmaster, respectively, of the new division of the C., R. I. & P. Ry. Their jurisdiction remains about the same, and their headquarters also remain at Cedar Rapids, Ia.

OBITUARY

Mr. Benjamin H. Groves, Superintendent of the Lebanon, Ind., water-works, died recently in that city, aged 32 years.

Mr. Amasa Sprague, senior member of the once widely known A. & W. Sprague Mfg. Co., died at his home in Warwick, R. I., on Aug. 4, aged 74 years.

Maj. Josiah Pierce, Jr., Civil Engineer, died at the Garfield Hospital in Washington, D. C., on July 30. Major Pierce was born in Russia 41 years ago, his father being with the American legation there at the time. Since 1882 he has been the Instructor and Professor of Engineering at the Columbian and the Catholic universities.

ENGINEERING SOCIETIES.

COMING MEETINGS.

LEAGUE OF AMERICAN MUNICIPALITIES.
Aug. 27-29. Annual meeting at Grand Rapids, Mich. Secy., J. McVicar, Des Moines, Ia.
AMERICAN FORESTRY ASSOCIATION.
Aug. 27, Sept. 1. Special summer meeting at Lansing, Mich., and excursion to Mackinac. Otto J. J. Luebkert, Atlantic Building, Washington, D. C.
INTERNATIONAL MINING CONGRESS.
Sept. 1 to 6. Convention at Butte, Mont. Secy., Irwin Mahon, Carlisle, Pa.
ROADMASTERS' & MAINTENANCE-OF-WAY ASSOCIATION.
Sept. 9, 10, 11. Annual meeting at Milwaukee, Wis. Secy., C. McEnery, Cedar Rapids, Ia.
CANADIAN MINING INSTITUTE.
Sept. 10. Annual meeting at Nelson, B. C. Secy., Prof. B. T. A. Bell, Ottawa.
NEW ENGLAND WATER-WORKS ASSOCIATION.
Sept. 10, 11, 12. Annual meeting at Boston, Mass. Secy., Willard Kent, Narragansett Pier, R. I.
AMERICAN ELECTROCHEMICAL SOCIETY.
Sept. 15-17. Annual meeting at Niagara Falls, N. Y. Secy., C. J. Reed, Philadelphia.
CENTRAL STATES WATER-WORKS ASSOCIATION.
Sept. 23-25. Annual meeting at Indianapolis, Ind. Secy., W. A. Veach, Newark, O.
AMERICAN SOCIETY OF MUNICIPAL IMPROVEMENTS.
Oct. 7-10. Annual meeting at Rochester, N. Y. Secy., G. W. Tillson, Brooklyn.
INTERNATIONAL ASSOCIATION OF MUNICIPAL ELECTRICIANS.
Oct. 7, 8, 9. Annual meeting at Richmond, Va. Secy., F. P. Foster, Corning, N. Y.
AMERICAN STREET RAILWAY ASSOCIATION.
Oct. 8, 9, 10. Annual convention at Detroit, Mich. Secy., T. C. Penington, Chicago.
ASSOCIATION OF RAILWAY SUPERINTENDENTS OF BRIDGES AND BUILDINGS.
Oct. 21. Annual convention at Minneapolis, Minn. Secy., S. F. Patterson, Concord, N. H.

AMERICAN BOILER MANUFACTURERS' ASSOCIATION.—The annual convention, held at Atlantic City, N. J., on July 21, 22 and 23, was devoted largely to routine matters and to social enjoyment. The most important technical matter of the sessions was a progress report of the committee on marine boiler inspection laws. It is expected that certain modifications of the rules of inspection will be secured, and it is hoped full revision of the inspection laws by Congress will be brought about. The American Association for Testing Materials specifications for boiler steel were found to differ somewhat from those of the American Boiler Manufacturers' Association, but it was hoped that the points of difference might be adjusted. The election of officers resulted in the choice of Mr. J. O'Brien as president, and Mr. J. D. Farasey (re-elected) as secretary.

INTERNATIONAL MINING CONGRESS.—The fifth annual meeting will be held at Butte, Mont., Sept. 1 to 5. Among the objects of this association are the better recognition of the mining industry by the national government, certain changes in the mining laws, and the establishment of a government Department of Mines and Mining. Among the contributors of papers to be read and discussed are the following: F. H. Newell, Chief Hydrographer; Walter H. Weed and W. Lindgren, Geologists, and R. H. Chapman, Topographer; all representing the U. S. Geological Survey; Prof. A. T. Holmes, State Geologist of North Carolina and Chief of the Mineral Department of the St. Louis Exhibition; Prof. E. A. Smith, State Geologist, University of Alabama; Prof. R. B. Fulton, University of Mississippi; C. J. Moore, of Cripple Creek, Colo., and others. President, E. L. Shaffner, Cleveland, O.; Secretary, Irwin Mahon, Carlisle, Pa.

CONSTRUCTION NEWS.

CONDENSED LIST OF CONTRACTS PENDING WITH DATE OF OPENING BIDS.

Bids to be opened	Work.	Place.	See Eng. News.
Aug. 7.	Water mains, etc.,	New York.	July 31
Aug. 7.	Paving, etc.,	Wilmette, Ill.	July 31
Aug. 7.	Bridges (4),	Mauch Chunk, Pa.	July 31
Aug. 7.	Building,	Faribault, Minn.	July 31
Aug. 7.	Paving,	Frederick, Md.	July 24
Aug. 7.	Water-works,	Elyria, O.	July 24
	Advertised, Eng. News, July 24 and 31.		
Aug. 7.	Hospital building,	Winthrop, Mass.	July 17
Aug. 7.	Trunk sewer,	Newark, N. J.	July 17
	Advertised, Eng. News, July 17 to 31.		
Aug. 7.	**Water pipe, etc.,**	**Yonkers, N. Y.**	**July 17**
	Advertised, Engineering News, July 17.		
Aug. 8.	School,	Merrill, Wis.	July 24
Aug. 8.	Electric plant franchise,	Paducah, Ky.	July 31
Aug. 8.	Bridge,	Goldendale, Wash.	July 31
Aug. 8.	Extending electric plant,	Annapolis, N. S.	July 31
Aug. 8.	Paving,	New Brighton, N. Y.	July 31
Aug. 8.	Sidewalks,	Washington, D. C.	July 31
	Advertised, Engineering News, July 31.		
Aug. 8.	Switchboards,	Washington, D. C.	July 31
Aug. 8.	Electric ry franchise,	Paducah, Ky.	July 31
Aug. 8.	Court house,	Ada, Minn.	July 31
Aug. 8.	Paving,	Rome, N. Y.	July 31
Aug. 8.	Boilers, pumps, etc.,	New York.	July 31
	Advertised, Eng. News, July 31 and Aug. 7.		
Aug. 8.	Portland cement,	Columbus, O.	July 31
	Advertised, Engineering News, July 31.		
Aug 8.	Masonry dam,	Columbus, O.	July 31
	Advertised, Engineering News, July 31.		
Aug. 8.	Bridge masonry,	Pittsburg, Pa.	Aug. 7
Aug. 9.	Electric plant,	Clintonville, Wis.	Aug. 7
Aug. 9.	Bridge removal,	Buffalo, N. Y.	Aug. 7
Aug. 9.	Paving,	Little Rock, Ark.	Aug. 7
Aug. 9.	Paving,	Frederick, Md.	Aug. 7
Aug. 9.	School,	Cromwell, Ia.	July 17
Aug. 9.	Building,	Vallejo, Cal.	July 3
Aug. 9.	Fire engine,	Dallas, Tex.	July 31
	Advertised, Eng. News, July 31 and Aug. 7.		
Aug. 9.	Church,	Marysville, O.	July 31
Aug. 10.	Plans for library,	Portsmouth, O.	Aug. 7
Aug. 11.	School,	Waterbury, Conn.	Aug. 7
Aug. 11.	School,	Worcester, Mass.	Aug. 7
Aug. 11.	Sewers,	Great Falls, Mont.	Aug. 7
Aug. 11.	Gasoline engine,	San Luis Obispo, Cal.	Aug. 7
Aug. 11.	Railway (C. & P.),	Pittsburg, Pa.	Aug. 7
	Advertised, Engineering News, Aug. 7.		
Aug. 11.	Paving,	Lincoln, Neb.	Aug. 7
Aug. 11.	Wire and staples,	Washington, D.C.	July 31
Aug. 11.	Dredging plant, etc.,	Cardiff, Wales.	July 31
Aug. 11.	Sewers,	Milton, Mass.	July 31
Aug. 11.	Electric ry franchise,	San Bernardino, Cal.	July 31
Aug. 11.	Jail,	Salt Lake City, Utah.	July 31
Aug. 11.	Sea wall,	Galveston, Tex.	June 26
	Advertised, Eng. News, June 26 to July 24.		
Aug. 11.	Pumping engine,	Yonkers, N. Y.	July 17
	Advertised, Engineering News, July 17.		
Aug. 12.	Mint Building,	Denver, Colo.	June 26
	Advertised, Eng. News, June 26 and July 3.		
Aug. 12.	Sewers,	New Orleans, La.	June 5
	Advertised, Eng. News, June 5 to Aug. 14.		
Aug. 12.	Pumps, boilers, etc.,	New Orleans, La.	June 5
	Advertised, Eng. News, June 5 to Aug. 14.		
Aug. 12.	Scow,	Detroit, Mich.	July 17
	Advertised, Eng. News, July 17 to Aug. 7.		
Aug. 12.	Macadam road,	Fort Sheridan, Ill.	July 24
Aug. 12.	Sewers,	Torrington, Conn.	July 24
	Advertised, Engineering News, July 24.		
Aug. 12.	Armory,	Buffalo, N. Y.	July 24
Aug. 12.	Paving,	Crookston, Minn.	July 31
Aug. 12.	Paving,	Chatham, Ont.	July 31
Aug. 12.	Church,	Goderich, Ont.	July 31
Aug. 12.	Bridge,	Pittsfield, Mass.	July 31
	Advertised, Engineering News, July 31.		
Aug. 12.	Water-works,	Enfield, N. H.	July 31
	Advertised, Eng. News, July 31 and Aug. 7.		
Aug. 12.	Bridge,	Sedro-Wolley, Wash.	Aug. 7
Aug. 12.	Bridge bonds,	Paulding, O.	Aug. 7
Aug. 12.	Machine tools, etc.,	Washington, D. C.	Aug. 7
Aug. 12.	Steel bridge,	Sonyea, N. Y.	Aug. 7
Aug. 12.	Sewers,	Clifton Forge, Va.	Aug. 7
Aug. 12.	Grading, etc.,	Clifton Forge, Va.	Aug. 7
Aug. 12.	Trap rock,	Morristown, N. J.	Aug. 7
Aug. 13.	Dumping carts (20),	New York, N. Y.	Aug. 7
Aug. 13.	Blackboards,	Washington, D. C.	Aug. 7
	Advertised, Engineering News, Aug. 7.		
Aug. 13.	Field ranges,	Jeffersonville, Ind.	Aug. 7
Aug. 13.	Clay,	Chicago, Ill.	Aug. 7
Aug. 13.	Street signs,	Brooklyn, N. Y.	Aug. 7
Aug. 13.	Bridge,	Montesano, Wash.	Aug. 7
Aug. 13.	Sewers,	Brooklyn, N. Y.	Aug. 7
Aug. 13.	Street work,	Brooklyn, N. Y.	Aug. 7
Aug. 13.	Sewers,	Norristown, Pa.	July 24
Aug. 13.	Pumping engines (3),	Chicago,	June 26
	Advertised, Engineering News, June 26.		
Aug. 13.	Heating apparatus,	Freeport, Ill.	July 10
Aug. 14.	Dredging,	Sandusky, O.	July 17
	Advertised, Eng. News, July 17 to Aug. 7.		
Aug. 14.	Dredging,	New York, N. Y.	July 17
	Advertised, Eng. News, July 17 to Aug. 7.		
Aug. 14.	Wiring system,	Hot Springs, Ark.	July 17
Aug. 14.	Mail-tube service,	Washington, D.C.	July 31
Aug. 14.	Hospital,	Shreveport, La.	July 31
Aug. 14.	Garbage crematory,	Reading, Pa.	July 31
	Advertised Engineering News, July 31.		
Aug. 14.	Hospital annex,	Toledo, O.	Aug. 7
Aug. 14.	Pipe, pump, tanks, etc.,	Rio Vista, Cal.	Aug. 7
Aug. 14.	Repaving,	Long Island City, N. Y.	Aug. 7
Aug. 14.	Sewers,	Paris, Ill.	Aug. 7
	Advertised, Engineering News, Aug. 7.		
Aug. 14.	Paving, etc.,	Paris, Ill.	Aug. 7
	Advertised, Engineering News, Aug. 7.		
Aug. 14.	Road improvement,	New York, N. Y.	Aug. 7
Aug. 15.	Schools,	New York, N. Y.	Aug. 7
Aug. 15.	Sewers,	Williamsport, Pa.	Aug. 7
Aug. 15.	Paving and curbing,	Fulton, N. Y.	Aug. 7
	Advertised, Engineering News, Aug. 7.		
Aug. 15.	Water-works, etc.,	Lawton, Okla.	July 31
	Advertised, Eng. News, July 31 to Aug. 14.		
Aug. 15.	Paving,	Des Moines, Ia.	July 31
Aug. 15.	Sewerage,	Lawton, Okla.	July 31
	Advertised, Eng. News, July 31 to Aug. 21.		
Aug. 15.	Dredging,	Buffalo, N. Y.	July 31
	Advertised, Eng. News, July 31 and Aug. 7.		
Aug. 15.	Bridge,	Providence, R. I.	July 31
	Advertised, Eng. News, July 31 and Aug. 7.		
Aug. 15.	Dredging,	Menominee, Mich.	July 31
	Advertised, Eng. News, July 31 and Aug. 7.		
Aug. 15.	Brick building,	Fort Slocum, N. Y.	July 24
	Advertised, Eng. News, July 24 to Aug. 14.		
Aug. 15.	Road work,	Vincennes, Ind.	July 24
Aug. 15.	Public lighting,	Indianapolis, Ind.	July 10
Aug. 15.	W.-w. and drainage,	Monterey, Mex.	July 17
Aug. 15.	Dredging,	Cleveland, O.	July 17
	Advertised, Eng. News, July 17 to 31.		
No date.	Wire fence,	Uriah, Cal.	July 31
"	Water-works,	Freeport, O.	July 31
"	Paper mill,	Kalamazoo, Mich.	July 31
"	Starch works,	Brantford, Ont.	July 31
	Advertised, Engineering News, Aug. 7.		
No date.	Electric plant and w.-w.,	Elgin, Tex.	Aug. 7

RAILWAYS.

BELT LINE RY.—This company has filed articles of incorporation in Oregon for the purpose of building a line around the shore line of Coos Bay, a distance of from 30 to 40 miles. The capital stock is $1,000,000.

BESSEMER & LAKE ERIE.—A contract has been awarded to the Patton & Gibson Co., Pittsburg, for yard and second-track work at North Bessemer, Pa. The work is to be completed by Jan. 1.

CALIFORNIA.—The Diamond Match Co., which recently secured large tracts of timber land in Butte, Plumas and Lassen counties, is reported to be taking steps for milling the timber. A railway tapping the timber belt of Butte county is proposed. Surveyors are now at work on a line connecting with the Southern Pacific Co.'s main line at Nelson and running from there into the mountains and by way of Magnalia. The road will be broad gage, according to reports.

CHICAGO, BURLINGTON & QUINCY.—It is reported that this company has or will purchase the old right of way of the Dakota & Wyoming along Rapid Creek, for the purpose of building a line giving an entrance into Rapid City, S. Dak., and connecting with Mystic, a distance of 30 miles.

CLEVELAND & PITTSBURG.—Bids are wanted by this company until Aug. 11 for grading about 13 miles of double track on new line between Hudson and Ravenna, O., as stated in our advertising columns. Thos. Rodd, Ch. Engr., Pittsburg, Pa.

COLUMBUS & SOUTHERN.—Incorporated in Ohio with a capital stock of $2,000,000, to build a road from Columbus to Wellston, with branches to Lancaster and to the eastern boundary of the state. George Hoadley, Jr., Livingston Curling, and J. G. Reeves are interested.

DELAWARE & NORTHAMPTON.—We are informed that the company is ready to consider estimates on the construction of its road. The surveys are made and the right of way and construction capital secured. B. Sherwood Dunn is Pres., and B. G. Boilleau, Ch. Engr., both with offices at 25 Broadway, New York.

DENVER & NORTHWESTERN.—President Perry is reported to have announced that A. A. Utley & Co., Rock Springs, Wyo., has been awarded the contract for building 18 miles of this road.

EL PASO & SOUTHWESTRN.—Orman & Crook, contractors, have recently been awarded a contract for completing this road, calling for the construction of a line from Fairbanks, Ariz., to Tombstone, a distance of 40 miles. The cost of the work will be about $700,000.

INTERCOLONIAL RY.—Bids are reported wanted by this company at its office in Moncton, N. B., until Aug. 12 for the grading and tracklaying on a branch line from

Riviere Ouelle Station to St. Denis wharf, on the St. Lawrence River, a distance of over six miles. W. B. McKenzie is Ch. Engr.

KENTUCKY.—The Southern Ry. Co. is said to be behind a project to build a road from Maryville, 25 miles through Blount county, and into the mountains of Monroe county. A surveying force, under the supervision of a Mr. Nichols, of Coudersport, Pa., will start work within a few days. The road is run as direct as possible from Maryville to the mouth of Citico Creek, about 16 miles away. At that point a manufacturing town will be created. From these nine miles into the mountains will be the route of the proposed line.

LOUISIANA WESTERN.—A contract is reported to have been let to S. A. Robertson, Orange, Tex., for grading the proposed Lacassine extension of this road, from a point near Lake Charles, La., for a distance of 25 miles.

MADRID R. R.—S. G. Haley, Phillips, Me., writes us that a survey has been made of the proposed road of this company, which will be nearly seven miles in length. The right of way has been obtained and about one mile has already been built. Fletcher Pope is Gen. Mgr.; D. W. Brown, Phillips, is Ch. Engr.

NASHVILLE, CHATTANOOGA & ST. LOUIS.—J. W. Thomas, Jr., Pres., Nashville, Tenn., informs us that the survey is in progress for the Lebanon branch extension.

NEW YORK CENTRAL & HUDSON RIVER.—The estimated cost of making the proposed improvement in connection with the smoke nuisance in the Park Ave. tunnel in New York city is placed at about $20,000,000, and the time for completion of the work is given as three years after starting work. The improvement will mean the change of the motive power on the main line from Croton Landing and on the Harlem line from White Plains into the Grand Central Depot, in New York city, electricity being substituted for the present steam power. A large union station will be established in the Bronx, and several power houses, each furnishing 100,000 HP., will be erected. A number of grade crossing will be eliminated also in connection with this work. W. C. Brown is Third Vice-Pres., and W. J. Wilgus is Ch. Engr., Grand Central Station, New York.

NORTH CAROLINA CENTRAL.—A charter covering a period of 60 years has been granted by the state of North Carolina to this company for the construction of a road from Concord, N. C., to Fayetteville, about 50 miles. The capital stock is $2,000,000. J. Herbert Shedd, Providence, R. I.; F. W. Siebert, Waterbury, Conn., and A. H. Slocum, Fayetteville, N. C., are interested.

NORTHERN PACIFIC.—A contract has been let to C. L. Cady, Livingston, Mont., for the construction of loop and yard tracks at Gardiner, Mont., approximating about two miles of line.

OREGON & IDAHO CENTRAL.—Articles of incorporation have been filed at Baker City, Ore., by this company, capitalized at $6,000,000, which is to have a road running from Baker City by way of Eagle and Pine Valleys to Seven Devils, Idaho. J. D. Voss, H. J. Withey and Albert L. Longstreet are the incorporators.

OREGON R. R. & NAVIGATION.—A contract is reported to have been let by the company on Aug. 2 for building the line on the north bank of the Snake River, to be 71 miles in length. Work is to begin at once and be completed by April 15.

OTTAWA & ST. LAWRENCE.—Operations are expected to be commenced shortly on this road, to run from Ottawa, Ont., to Richmond, thence via Merrickville and North Augusta to Brockville. A. E. Baker, Merrickville, Ont., is solicitor.

PHILADELPHIA, WILMINGTON & BALTIMORE.—Gonder & Brownback, railway contractors, Eddystone, Pa., who have the contract for the grading and masonry on section 1 for the change of line for the elevation of tracks on this road, have been awarded the contract for the filling on section 2. The work will require about 200,000 cu. yds. of material.

ST. LOUIS & GULF.—James F. Brooks, Ch. Engr., Cape Girardeau, Mo., writes us that the company is ready to entertain bids for the construction of a connecting link, 10.75 miles in length. The survey has been made on the line and the right of way obtained. The clearing (dense forest) has been let.

SMITHONIA & DUNLAP.—It is stated that James M. Smith, Pres., Smithonia, Ga., will extend this road from Five Forks to Danielsville, Ga., if the citizens of the last-named town will subscribe $10,000 in cash.

SOUTHERN CALIFORNIA.—A railway is projected in Southern California, to run from Ludlow to Gentry and from Camp Rochester to the Roosevelt mining camp, a total distance of 8 miles. The road will be used principally for mining purposes, and will be capitalized at $25,000. E. H. Stagg, L. J. Davis and Walter Rose are interested.

TALLAHATTA R. R.—This company, recently incorporated, has completed its organization and filed papers to that effect with the secretary of state of Mississippi. The line is to be primarily a lumbering road, running from Meridian to Philadelphia and thence to Louisville. Part of the line is already under construction near Chunky, in Newton county. James Meehan, S. N. Rounds and R. W. Meehan are the directors. The capital stock is $25,000.

TEMISKANNING RY.—The provincial government of Ontario has appointed F. E. Leonard, of London, Ont., the fifth commissioner for the building of this road. The commission being completed, operations will probably begin at an early date.

WESTERN MARYLAND.—Surveys are about completed for the Gwynn Falls extension of this road. Work on the road, which will reach tidewater, will be started next month. A tunnel about 2 miles long through the Blue Ridge Mountains will be constructed at a cost of $1,200,000, thus avoiding heavy grades. The tidewater terminals will cost about $3,000,000, according to reports. F. S. Landstreet is Vice-Pres. and Gen. Mgr., Baltimore, Md.

WISCONSIN & MICHIGAN.—Reports state that over $2,000,000 will be expended this year by the company in fulfilling the plans for improvements in the ore-carrying facilities. Next fall the road will have tracks into Norway, Quinnesec and to Lake Superior through a rich ore and timber belt. Side tracks will be laid to all the mines in the vicinity of Norway, Vulcan and Quinnesec. The company will also build a fleet of car barges with a capacity of 50 tons of ore to the car. C. H. Bosworth is Pres., Chicago.

STREET AND ELECTRIC RAILWAYS.

AUGUSTA, ME.—Articles of association of the Maine & New Hampshire Electric R. R., which proposes to operate a line 90 miles in length through western Maine, have been filed with the secretary of state. The amount of capital stock is $400,000. A. C. Kenneth, Conway, N. H.; Edward E. Hastings and Henry Andrews, Fryeburg, and Leslie C. Cornish, Augusta., are directors.

SOUTH FRAMINGHAM, MASS.—The South Middlesex St. Ry. Co. has planned to expend $50,000 in improvements to its road, and has already accomplished considerable work in that line. Soule & Dillingham, contractors, have charge of the betterments.

SPRINGFIELD, MASS.—Ley & Co., contractors, have received orders from the Berkshire St. Ry. Co. to begin laying rails through Stockbridge.

ALBANY, N. Y.—The Vermont & Whitehall Ry. Co. has been incorporated with a capital stock of $500,000 to operate an electric railway in Washington county. Daniel A. Slattery, J. Osgood and Leroy W. Baldwin are directors.

AMSTERDAM, N. Y.—The Mohawk Valley Construction Co. has awarded contracts to D. A. Crage & Co., 70 Terrace, Buffalo, for building a branch railway from the main line of the Amsterdam St. Ry. to the new power house under construction at Tribes Hill, N. Y., and for four miles of electric railway work on a double-track line west of Scotia, N. Y. Work is now under way with large forces on both lines.

BUFFALO, N. Y.—The franchises for the line of the Buffalo & Depew Electric Ry. extension to Rochester have been secured from the towns of Crittenden, Corfu, Stafford, Le Roy, Caledonia and Mumford, and it is expected that favorable action will soon be taken by the authorities of Batavia.

CORNING, N. Y.—H. A. Clark, Secy. Tuscarora Valley R. R. Co., Corning, informs us that a preliminary survey for the company's line has been made, and the final survey will be started at once. The construction capital is secured, and the company is willing to award contracts now if the contractors will make the survey. The line will be an electric, 19 miles in length, running from this town to Woodhull and Jasper. A. E. Gokey, Painted Post, N. Y., is Pres.

OSSINING, N. Y.—The board of highway commissioners has granted a franchise to the Westchester Traction Co., to run a line to the town line, on condition that it will be completed within six months. This will be part of the proposed extension to Pleasantville. The grant covers about two miles, and is along a private right of way.

PENN YAN, N. Y.—Local papers state that M. Rickey, Horseheads, is in charge of the survey for the projected electric road between Penn Yan and Keuka, 13 miles, assisted by David Hoover, Keuka. M. F. Sheppard, D. E. Hoover and C. H. Sisson are among those interested in the proposition.

TROY, N. Y.—Chas. I. Baker, Troy, writes us that the route of the proposed electric railway to be built by the Granville & Poultney R. R. has been surveyed and mapped, and negotiations are now under way for the construction capital. The line will run from Granville, N. Y., to Lake Catherine and Poultney, Vt., a distance of 10 miles. Wm. Nathaniel is Pres., and E. H. Randall, Ch. Engr., both of Poultney.

CAMDEN, N. J.—Application has been made for the incorporation of the Camden, Atlantic City & Chelsea Passenger Ry., with $250,000 capital stock, which is to operate an electric railway between Atlantic City, Chelsea and other points along the Jersey coast.

PLAINFIELD, N. J.—S. D. Drake, of Plainfield, is promoting a plan to build a trolley line along the Watchung Mountain, between North Plainfield and Chimney Rock, a distance of five miles. It is proposed to run the line 300 ft. high on the mountain. Mr. Drake is said to have been assured of sufficient capital with which to build the line, and will now incorporate a company for that purpose.

CHAMBERSBURG, PA.—The McConnellsburg & Emmittsburg Turnpike has been purchased by the Tennis Construction Co., of Philadelphia, owner of the Chambersburg, Green Castle & Waynesboro Trolley Co., for the use of the proposed road. The turnpike is about 40 miles long.

HARRISBURG, PA.—The Mayfield, Carbondale & Crystal Lake Ry. Co. has been granted a charter by the state department.

SHARON, PA.—The Sharon & West Middlesex Electric R. R. Co. has been incorporated with a capital stock of $50,000. M. A. Morris and R. Montgomery, Youngstown, and Mayor William McIntyre of Sharon are incorporators.

WILLIAMSPORT, PA.—A survey of the proposed extension of the line of the South Side Passenger Ry. Co. to Du Boistown has been made. This extension will be completed by fall. E. H. Davis, Secy. and Mgr.

ELKTON, MD.—The Baltimore & Chestertown R. R. has been incorporated to build an electric railway from Chestertown to Rock Hall and to Tolchester Beach. The capital stock is $75,000. Henry R. Fothergill, Wilmington, Del.; H. H. Barroll, Wilbur W. Hubbard and others of Kent county are incorporators.

ROCKVILLE, MD.—It is stated that the Chevy Chase & Kensington electric railway will be extended to Wheaton. The road is the property of George E. Emmons and other Washington, D. C., capitalists. The residents along the route will be asked to subscribe $2,000 toward the line.

COLUMBIA, S. C.—A charter has been issued to the Winnsboro & Rock City Electric Ry., with headquarters at Winnsboro. The new company is capitalized at $50,000, and will build an electric road from Winnsboro to certain granite quarries in Fairfield county. Thos. H. Ketchin, T. K. Elliott and J. D. McCarley are interested.

MONTGOMERY, ALA.—The Montgomery Traction Co. has filed incorporation papers in this city. The new company will operate the line now building to Pickett Springs and a system to be built in this city. It is capitalized at $1,000,000. B. L. Hoyt, W. F. Vandiver and W. T. Robertson are incorporators.

LEXINGTON, KY.—We are informed that the Blue Grass Consolidated Traction Co., of Lexington, will be ready to let contracts in about 30 days for the construction of an electric railway system, 200 miles in length, connecting this city with Nicholsville, Versailles, Winchester, Mt. Sterling, Georgetown, Richmond, Paris and Frankfort. Surveys have been completed. Geo. B. Davis is Pres., 419 Hammond Bldg., Detroit, Mich., and Fred. H. Bean, Lexington, is Ch Engr.

CINCINNATI, O.—It is reported that the actual construction on the Cincinnati, Milford & Goshen St. Ry. will be started about Aug. 11, and that the road will be ready for operation by Feb. 1. Preliminary work is now under way. About $500,000 will be spent at once on the line. W. C. Compton is one of the promotors.——The Cincinnati & Northeastern Traction Co., of Dayton, has been incorporated with $15,000 capital stock by Dennis Dwyer, Chas. D. McCrea, B. M. Hopkins and others, to build an electric railway between Cincinnati and Dayton.

CLEVELAND, O.—Bids are asked until Aug. 25 for a franchise to construct and operate a double-track street railway from Seneca St. and Scranton Ave. southerly through Seneca St., to South St. C. W. Toland, Cy. Clk.

EVANSVILLE, IND.—Surveys have been made for the line of the Evansville & Harderson Electric Ry. Co., and rights of way secured. W. C. Henning, of Evansville, informs us that it is still undecided as to when contracts will be awarded. The entire capital is not secured. The company has perpetual franchises for a line from Evansville to Henderson by way of Howell and Dogtown, 10 miles. Chas. F. H. Laval, Evansville, is Pres., and Chas. Fiske is Ch. Engr., Swift Bldg., Cincinnati, O.

PRINCETON, IND.—H. Kurtz, of this town, sends us the following information regarding the progress on the line of the Jasper, French Lick, West Baden & Northeastern Traction Co. The line will be an electric, 40 miles in length, running from Jasper to French Lick,, West Baden, Orangeville and Mitchell. Surveys have been made from Jasper to West Baden, 24 miles, and 95% of the right of way on that section will be private. About 20 miles is already secured. The funds for grading are in sight, and a construction company will do the work, starting operations in September. The election of officers has not yet taken place. The company's headquarters will be located here.

RICHMOND, IND.—Gus. M. Hodges, Pres. Richmond & Northwestern Electric Ry., Richmond, writes us that contracts for building the company's line will be let in 50 days. About 95% of the right of way has been secured, and the capital assured. The line will be 49 miles in length, and will run from Richmond to Greenford, Hagerstown, Newcastle, Middletown, Anderson and other intermediate points.

SPRINGFIELD, ILL.—The Western Illinois Electric Ry. has been incorporated with a capital stock of $[illegible]. The company will construct an electric line connecting this city with the lower end of the county and Aledo in Mercer county. F. H. Caldwell, R. E. Little and Elmer E. Reynolds are the incorporators.

WINONA, MINN.—Surveys are being made for an electric line from this place to Rushford, a distance of 28 miles. The Winona Ry. & Light Co. is said to be building the new road. Geo. P. Brandes is making the survey.

LITTLE ROCK, ARK.—The Fort Smith Suburban Ry. Co. has received a charter for its line in Fort Smith to be about six miles long. The capital stock is $[illegible]. Geo. Sengel is Pres.

TEXARKANA, TEX.—The Texarkana St. Ry. Co. has been purchased by E. J. Spencer and T. W. Crouch, St. Louis, Mo. The line is a mule system, but will be changed into a cable system and extended by the new owners.

LAS VEGAS, N. MEX.—Local papers state that Jno. G. L. Emerson will begin work on a new electric street railway line.

HILLSBORO, ORE.—A mass meeting of the citizens of Washington county was recently held here, when a Mr. Gradon, of Portland, representing the Portland-Hillsboro Electric Morat Co., stated that his company proposed to build an electric railway line from Hillsboro to Portland. A committee was appointed to secure the right of way through the city and county.

LOS ANGELES, CAL.—A contract is reported to have been let to Bright, Crandall & Co., contractors, for building the tracks of the Los Angeles & Redondo Ry., between Redondo and Jefferson St., embracing about seven miles of track.

MONTEREY, CAL.—The sale of the Monterey & Pacific Grove St. Ry. to the Monterey Gas & Electric Co. has been completed. The line will be converted into an electric road at once.

OAKLAND, CAL.—The Oakland Transit Co. has let a contract to the A. L. & E. B. Stone Co. for the grading of a piece of line in this city. The work will cost about $60,000.

PICTOU, ONT.—M. R. Allison, W. T. Crandall, John A. Sprague and others of this place have secured a franchise for the construction of a street railway for Pictou.

LIGHT, HEAT AND POWER PLANTS.

BRATTLEBORO, VT.—W. H. Vinton, Comr., writes us that an engineer has been employed to make surveys for an electric plant, work on which will commence at once. A press report states that Fred. W. Bateman, of Clinton, Mass., has been engaged to make the survey. The dam will raise the water 20 ft., and will develop about 2,500 HP.

MANCHESTER, MASS.—The question of a municipal electric plant to cost about $150,000 is being considered. The wires will be placed underground. Maj. H. L. Higginson and Wm. A. Tucker are interested.

BUFFALO, N .Y.—The Larkin Co. proposes to build at once a new electric plant to cost about $135,000, and a pottery plant to cost about $400,000. Robt. J. Reidpath is Arch. Chas. Berricke Sons are the contractors for the power building.

GOUVERNEUR, N.Y.—J.H. Abbott has asked for a franchise for an electric plant, to be completed by March 1. The wires are to be underground. The plant is to be capable of developing about 800 HP. Chas. H. Anthony and D. M. Hazleton are on the city commttee.

MIDDLEPORT, N. Y.—Frank Dudley and Wallace C. Johnson, C. E., of Niagara Falls, N. Y., have secured a franchise here for a power plant and water-works.

NEW YORK, N. Y.—The Broad Brook Mill Co. proposes to build an electric plant of 1,200 lights capacity.

SENECA FALLS, N. Y.—The town is asking for bids for lighting the streets. The successful bidder must build a new plant. Frank Schoenbloom is Town Clk.

MERCER, PA.—Local parties, it is stated, are arranging to build an electric plant.

POTTSVILLE, PA.—The Schuylkill County Electric Co. proposes to extend its plant. Address C. P. King, Real Estate Trust Bldg., Philadelphia.

READING, PA.—The question of building a municipal electric plant will be voted upon Nov. 4.

BALTIMORE, MD.—The Woman's College proposes to build an electric and heating plant. Rev. J. F. Goucher is Pres.

RALEIGH, N. C.—A heating and power plant will be built for the A. & M. College.

ATLANTA, GA.—The Atlanta Electric Co. has asked for a franchise to build transmission wires.

AUGUSTA, GA.—The Augusta Ry. & Light Co. has been awarded a 5-year contract for electric lighting. Important improvements will be made to the plant. The question of a municipal plant is also being considered. Jacob Phinizy is Mayor.

COLUMBUS, GA.—Stone & Webster, of Boston, owners of the street railway in this city, have secured the river front property on the Georgia side of the Chattahoochee River, from the Columbus Power Co., just above the city to the mouth of Standing Boy Creek, about 8 miles; also considerable river front property on the Alabama side. The company will build a dam across the river 47 ft. high at some point just above the Clapp factory property, and will erect a power plant with 20,000 HP. The plant of the Columbus Power Co. has a capacity of only 8,000 HP. It is said that the power generated at this new plant will be used to operate the street car lines in the city as well as the street lights and power for the several industries that use electricity, and that a number of new mills will be erected in that locality which will be driven by power furnished from this plant.

YAZOO CITY, MISS.—An election will soon be held to vote on the question of issuing $200,000 in bonds for an electric plant, sewers and water-works.

NEW ORLEANS, LA.—H. H. Pearson, Jr., Pres. New Orleans Ry. Co., has submitted a proposition to light this city. He proposes to build a large electric light plant.

CHATTANOOGA, TENN.—The Chattanooga Electric Ry. Co. proposes to build a new power house at once.

KNOXVILLE, TENN.—Col. J. B. Treat, of New York, it is stated is interested in the projected 15,000-HP. plant on the Tennessee River, to be built by the Knoxville Water Power Co.

COLUMBUS, O.—Bids are asked by the board of public works until Aug. 18 for a municipal electric plant, and until Aug. 8 for a masonry dam.

HUBBARD, O.—The clerk is reported as asking for bids for an electric plant. Address Mayor Jackson.

NEW BREMEN, O.—Edward Pinpus, Mayor, writes us that this place has voted to issue $50,000 in bonds for an electric plant and water-works.

DUBLIN, IND.—The town board is considering the matter of granting a franchise to the Indianapolis & Eastern Traction Co. for a street railway and an electric plant.

HOWELL, IND.—The Evansville Gas & Electric Light Co. has been granted a franchise for a gas or electric plant, work on which must begin inside of five weeks.

INDIANAPOLIS, IND.—The Merchants' Heat & Light Co. has completed plans for its proposed plant, to cost about $300,000. W. H. Schott is Engr., Chicago.——Local papers state that contracts will be let at once for the electric lighting of the city for a term of years from Jan. 1, 1904.

ALBION, MICH.—This city will vote Aug. 20 on the question of issuing bonds for an electric plant.

ST. JOSEPH, MICH.—The question of issuing $32,000 of bonds for an electric plant will be voted upon Aug. 11.

BELVIDERE, ILL.—The People's Electric & Heating Co. has been granted a franchise for an electric plant.

CHICAGO, ILL.—The People's Gas Light & Coke Co. proposes to extend its plant on Division St.

EAST ST. LOUIS, ILL.—Reports state that Clark Bros., of Philadelphia, Pa., have purchased the properties of the Citizens' Electric Light & Power Co. for $600,000. It is proposed to make extensions and improvements. A. B. Sager is Supt.; H. D. Sexton is secretary and treasurer.

NORMAL, ILL.—The Normal Electric Light Co. has been granted a 20-year franchise for a plant, work on which has already been begun.

VENICE, ILL.—The property of the Venice Electric Light & Power Co. has been sold to Geo. B. Hanford.

CLINTONVILLE, WIS.—Bids are asked until noon Aug. 9 for an electric plant. A. W. Richter, Mech. Engr.; B. V. Swenson, Elec. Engr., Madison, Wis.; Frank Gause, Cy. Clk.

EAST DUBUQUE, IA.—This place has voted to build a municipal electric plant.

ST. PAUL, MINN.—Health Officer Obage has asked for an appropriation for an electric plant on Harriet Island, to cost about $5,000.

FREMONT, NEB.—Reports state that R. N. King, of New York, is endeavoring to secure funds with which to build the proposed power canal for the Tremont Canal & Power Co.

SOUTH OMAHA, NEB.—The question of issuing $25,000 in bonds for a combined light and water plant is being considered.

DELL RAPIDS, S. DAK.—The question of building an electric plant is being considered.

SIOUX FALLS, S. DAK.—W. H. Ramsey, J. Mallaney and H. N. Gates are on a committee to investigate the question of buying the gas plant, the franchise for which expires May 8, 1903.

BUTTE, MONT.—Reports state that a company has been organized by Hogan Bros., of Butte and Helena, Mont., to build a 2,000-HP. plant on Crooked River, Elk City mining district for the Crooked River Electric Mining & Power Co.

ST. LOUIS, MO.—Bids are asked until Aug. 15 by the board public improvements for lighting city buildings.

ELGIN, TEX.—Bids are wanted at once by Chas. Gillespie, Mayor, of Elgin, for installing an electric plant and water-works.

PUEBLO, COLO.—The Pueblo Gas Light Co.'s property has been sold to Farson, Leach & Co. and Devitt, Tremble & Co., of Chicago, for about $500,000. The new owners propose to extend the plant.

TRINIDAD, COLO.—Seth Hartley has been granted franchises for an electric plant and for a street railway, work on which has been begun.

PORTLAND, ORE.—The board of public works will ask for bids at once for lighting the city for five years, from July 1, 1903. Councilman Mills is Chn.

BAKERSFIELD, CAL.—The California Power Co. has begun the construction of its plant on the Kern River. This work will not be let by contract. It is stated that work on the plant of the Pacific Light & Power Co. is under way, and within 12 months the plant at Kernville will be in operation. Robert Byrle, who constructed the Broadway tunnel, of Los Angeles, has the contract for building the Pacific Light & Power Co.'s ditch for its entire distance of 12 miles. The line will extend from Kernville southwest, and the work will cost about $200,000. Contracts for lumber to be used have been let to the Union Lumber Co., of Bakersfield, at a cost of about $50,000. The material needed will aggregate 2,000,000 ft. Cost of handling will exceed $100,000. Colton & Co. have the contract for furnishing cement for the work. The California Portland Cement Co. will supply the material at a cost of about $20,000. The first delivery will be 6,000 barrels. In addition the new Pacific Light & Power Co.'s steam plant in Los Angeles is nearly completed. About 3,200 more HP. will pe provided when the new plant is ready for operation.

COULTERVILLE, CAL.—Reports state that a company has been organized to build a power plant on McCabe's Flats, to cost about $1,000,000. A masonry dam will be built on the Merced River, near here, to develop about 5,000 HP.

EUREKA, CAL.—C. A. Baird, of Bridgeville, Cal., writes us that preliminary surveys for the proposed power plant have been completed. There will be waterwheels, generators, overhead wire and underground conduits for both lighting and power.

LAKEPORT, CAL.—Eliot Cordray proposes to build an electric plant.

POMONA, CAL.—The Pomona & Ontario Light & Fuel Co. has sold its bonds, the proceeds to be used for extending the plant.

LOGAN, UTAH.—This place has voted to build an electric plant to cost about $65,000.

VANCOUVER, B.C.—It is stated that Ironsides, Rannie & Campbell, of Vancouver, have been awarded the contract at about $250,000 for driving about 13,000 ft. of tunnel through the mountains for the proposed power plant of the Vancouver Power Co. The entire plant will cost about $1,250,000.

BRIDGES.

SWAMPSCOTT, MASS.—The commissioners have apportioned the cost of the new bridge here as follows: B. & M. R. R., $2,135; Essex county, $3,000; Swampscott, $701.

SOMERS, CONN.—Reports state that a steel bridge, 65 ft. long and 25 ft. wide over the Scantic River, is contemplated. L. W. Russell, Selectman, may be addressed.

BRISTOL SPRINGS, N. Y.—The contract for seven bridges for this place has been let to the Rochester Construction Co. for $3,700.

CATTARAUGUS, N. Y.—The contract for a 200-ft. bridge across the ravine has been let to the Oswego Steel Bridge Co. for $10,000.

FORT PLAIN, N. Y.—The contract for a bridge over Otsquago Creek has been let to the Owego Bridge Co. for $6,882.

BUFFALO, N. Y.—Bids are asked until Aug. 9 for removing Main St. bridge over Hamburg Canal, filling canal, repaving approaches and various other work. Francis G. Ward, Comr.

BROOKLYN, N. Y.—Borough President Swanstrom has reported to the board of estimate and apportionment in favor of a new and modern bridge at Hamilton Ave., over the Gowanus Canal. The estimated cost is $160,000.

HORNELLSVILLE, N. Y.—A press report from this place states that the cloud burst of last week caused a loss in Canisteo township, from bridges swept away and highways damage of $50,000.

MORRIS, N. Y.—Plans for a masonry arch bridge, 25 ft. span, have been made by E. F. Musson, C. E., Norwich, N. Y., for this town. The bridge will be constructed by the highway commission. B. D. Phillips, Comr.

SONYEA, N. Y.—Bids are asked until Aug. 12 for constructing steel bridge foundations and grading at Craig Colony for Epileptics. Dr. W. P. Spratling, Supt.

NEWARK, N. J.—It is stated that C. R. of N. J. officials have adopted plans for a new steel bridge over Newark Bay. The structure is to be over a mile in length and the draws over the channel are to have a 100-ft. clearance each side of the center pedestal. The cost of the work is estimated at about $1,000,000.

CROSS KEYS, PA.—According to reports M. D. Bowman, C. E., of Mahanoy City, is preparing plans and specifications for the proposed Schuylkill River bridge at this place.

MAUCH CHUNK, PA.—Bids are to be asked in a few weeks by the Carbon county commissioners for constructing a single arch stone bridge at Penn Forest; estimated cost, $3,500; also for constructing a two-arch stone bridge, 50 ft. × 20 ft.; estimated cost, $8,000. Franz Mackl is Engr.

McKEESPORT, PA.—The common council has appropriated $7,440 for the erection of a viaduct across White's Hollow on Versailles Ave.

MIFFLINVILLE, PA.—The contract for the new Susquehanna River bridge at this place has been let to C. H. Reimard, Bloomsburg, Pa., for $93,985.

PITTSBURG, PA.—Reports state that bids are asked by the Pittsburg, McKeesport & Connellsville Ry. Co. until Aug. 8 for constructing about 1,800 yds. bridge masonry at Scottdale, Pa., and about 600 yds. at Gratztown. Masonry to be either concrete or stone. A. J. Totten, Ch. Engr.

LURAY, VA.—Funds to the amount of $1,200 are already available for the erection of a new bridge on Main St., and the council will raise this amount to $2,500.

PORTSMOUTH, VA.—Plans for the new hospital bridge are said to be in preparation by Fred. Thompson, C. E. The sum of $5,000 is available for the work.

AUGUSTA, GA.—Commissioner Wingfield, according to reports, is estimating the cost of replacing the Kollock and Campbell St. bridges with masonry arches. It is quite probable that the Campbell St. bridge will be replaced this fall.

MONTE VISTA, FLA.—The citizens are petitioning for the county to erect a bridge across the Paletlakaha River at its mouth.

CROWLEY, LA.—The condemned Janenke bridge across Bayou Nezpique is to be replaced by a wooden bridge with a draw.

NASHVILLE, TENN.—The Tennessee Central R. R. Co. has let the contract for the masonry work of their Cumberland River bridge to Stewart & Co. Two piers are to be built and the work will cost between $35,000 and $50,000.

AKRON, O.—Council has passed an ordinance authorizing the preparation of plans for a $100,000 viaduct, to eliminate a dangerous railroad crossing on Mill St.——Bonds for the Falor St. bridge, to be erected at a cost of $25,000, are to be sold Aug. 9.

CINCINNATI, O.—Plans for the reconstruction of the Liberty St. viaduct have been under preparation by City Engineer Stanley. The cost of the repairs will be about $60,000.

COLUMBUS, O.—The P. R. R. Co. has filed plans and specifications for the new steel bridge which is to replace the present structure over the Scioto River. The cost of the work is estimated at $125,000. Reports state that the steel for the bridge has already been ordered.

EAST YOUNGSTOWN, O.—The P. & L. E. R. R. has completed plans for constructing a steel overhead bridge at this place at an estimated cost of $100,000. The structure would extend over the tracks of the electric railway, the B. & O. R. R. and the P. & L. E. R. R., connecting with the plant of the Youngstown Iron Sheet & Tube Co.

PAULDING, O.—Bids are asked until Aug. 12 for the purchase of $20,000 of bridge bonds.

YOUNGSTOWN, O.—Local press reports state that the question of a 700-ft. viaduct over Mill Creek, from Mahoning Ave. to Powers Hill, will be submitted to the voters next fall.

WINCHESTER, IND.—The contract for eight county bridges has been let to the following firms: J. T. Moreman, two; Bellefontaine (Ohio) Bridge Co., two; Attica Bridge Co., four. The total cost of the bridges is $4,722.

BAY CITY, MICH.—Reports state that Blomshield & McCloy, engineers for the county stone road commission, will shortly commence work on the construction of three iron bridges for the stone roads.

MUSKEGON, MICH.—Two iron and steel bridges are to be constructed by the county road commissioners on the Holton Road. One bridge will span Ceder Creek and the other Pantaloon Lake.

PEORIA, ILL.—The contract for constructing two bridges on the Peoria and Smithville Road has been let to the Illinois Bridge & Machine Co., Jacksonville, Ill., for $2,600.

MILWAUKEE, WIS.—The council finance committee has instructed the city engineer to prepare plans for a bascule bridge to Jones Island.

WINONA, WIS.—G. P. Coleman, Cy. Engr., informs us that the contract for furnishing a 60-ft. span and building approaches for the Homer bridge has been let to the La Crosse Bridge & Iron Co., La Crosse, Wis., for $1,095.

DYERSVILLE, IA.—The county supervisors have decided to expend $5,000 for a new bridge across the Maquoketa River. The present bridge is 146 ft. long and will be replaced by a one-span steel structure.

IOWA CITY, IA.—According to reports the county supervisors have discovered, that as the result of the recent floods, 40 Hardin county bridges have been so damaged that reconstruction will be necessary.

SIOUX CITY, IA.—J. M. Lewis, Cy. Engr., writes us that two span steel bridges, 24 ft. and 32 ft. wide, on concrete foundation, are to be erected at 16th St. and Geneva and 24th St. and Geneva.

AUSTIN, MINN.—The contract for a 70-ft. span bridge at this place has been let to the La Crosse (Wis.) Bridge Co.

WINONA, MINN.—G. P. Coleman, Cy. Engr., writes us that the reported replacement of the Kater bridge is a mistake, as it is not the intention of the board to replace this bridge at the present time.

PAOLA, KAN.—The county commissioners have decided to spend $20,000 for bridge work this year. The principal structures to be built are as follows: Whittaker's Ford, Wea and Ten Mile township, $1,475; Cramer Ford, Richland township, $1,475; Bull Creek, Richland township, $2,200; Bull Creek, south of Paola, $3,600; Middle Creek, south of Beagle, $1,375; Davis Ford, Sugar Creek township, costing $1,300; Pottowatomie, Duncan, $2,800.

PARSONS, KAN.—The contract for constructing six steel county bridges has been let to Henry Blodgett, Kansas City, Mo., for $7,764.

BASSETT, NEB.—Reports state that bids are asked until Aug. 18 for constructing a 600-ft. pile and stringer under-truss wood bridge across the Mobrara River. G. A. Hillburg, Co. Clk.

LEXINGTON, NEB.—It is stated that a company is to be organized to build a bridge across the Platte River, five miles west of the town. The company will submit a proposition to the voters of Lexington precinct to vote $10,000 bonds to aid in building the structure.

HAVRE, MONT.—The contract for a bridge and approaches across the Missouri at Seurich has been let to O. E. Peppard, of Missoula, for $6,574.

KALISPELL, MONT.—A petition is being circulated asking the county commissioners to construct a wagon bridge across the south fork of the Flathead River.

KINGFISHER, OKLA. TER.—Kingfisher and Canadian counties propose to build an 80-ft. steel bridge near Okarche, on the county line.

MONTESSANO, WASH.—Bids are asked until Aug. 13 for material and labor for a 70-ft. span highway bridge. H. B. Martin, Co. Clk.

SEDRO-WOLLEY, WASH.—Bids will be received by the Skagit county commissioners' clerk until Aug. 12 for constructing a bridge across the Samish River. Fred. Blumberg, Co. Audr.

ONTARIO, ORE.—Bids are asked until Sept. 2 for building a 50-ft. span wooden bridge, 16 ft. wide, across Sucker Creek. W. G. Thomson, Co. Clk.

PORTLAND, ORE.—The contract for building 1,511 ft. of bridge work on the famous Long Bridge between this city and Cornelius has been let to Joseph Allison at $3,750 for the bridge work and to W. L. Crocker at $400 for the 115 ft. fill.

SALEM, ORE.—Bids are asked until Aug. 8 for constructing a Howe truss bridge across the Abiqua River, and also for retimbering the Leichty bridge. B. B. Herrick, Jr., Co. Surveyor.

EUREKA, CAL.—The following bids were received by the supervisors for building bridges across Redwood Creek and Little Van Duzen River: Redwood Creek bridge—F. L. Smith, $9,000; Healey, Tibbitts & Co., $9,387; S. F. Bridge Co., $8,975; H. H. Gastman, $8,444. Little Van Duzen bridge—W. H. Mohn, $1,100 and $912; F. L. Smith, $890.

GILROY, CAL.—The supervisors have ordered County Surveyor McMillan to prepare plans and specifications for seven new bridges, to be constructed across different streams of the county during the coming year. Most of the proposed bridges call for stone and concrete. One of these bridges over Llagas Creek, on the Gilroy Road, will cost about $3,000, and the Carnadero Creek bridge, at the Monterey Road crossing, will cost between $3,000 and $4,000.

MODESTO, CAL.—Reports state that the county bridge across the Stanislaus River, at Orange Blossom Colony, between Oakdale and Knight's Ferry, and the big aqueduct flume of the Oakdale Irrigation Co., was recently destroyed by fire; loss, $5,000.

SANTA ROSA, CAL.—The following bids were received by the supervisors for building a county bridge across Russian River, at Markham's: Healey, Tibbitts & Co., $30,970; Hyde Construction Co., $31,500; San Francisco Bridge Co., $28,350; California Bridge Co., $30,479; Cotton Bros. & Co., $29,985; J. A. McMahon, $33,000. The bid of the San Francisco Bridge Co. was taken under advisement until the August meeting.

WEAVERSVILLE, CAL.—Bids are asked by the county supervisors until Aug. 19 for constructing a public wagon bridge across the Trinity River. R. L. Carter, Clk.

CALDWELL, IDAHO.—Bids are asked until Sept. 9 for a two-span steel and wood 325-ft. bridge across the Payette River, near Emmett Road, bridge to be built on steel tubular piers. J. M. Bernard, Chn.; Edgar Meeks, Co. Clk.

TORONTO, ONT.—W. A. Clarke, Township Clk., 108 Victoria St., Toronto, writes that nothing was done by York township regarding the Rosedale bridge, mention of which was made in a recent issue.

BUILDINGS.

NEWPORT, VT.—Bids are asked until Aug. 21 for erecting the custom house and post office building at Newport. The building will be of brick, stone and steel, fireproof in construction, four stories high, 56 × 74 ft., and will cost $80,000. J. Knox Taylor, Supervising Arch., Washington, D. C.

BOSTON, MASS.—Plans have been prepared by Peabody & Stearns, Archs., 53 State St., for the erection of a building for the State St. Association at State, Mercer and Corn Sts. The building will be 134 × 66 ft., and will cost about $1,000,000.

MEDFIELD, MASS.—A brick hospital building will be erected soon as part of the Medfield Insane Asylum, to cost about $80,000. Address B. S. Atwood, Whitman.

WESTFIELD, MASS.—Bids are asked until Sept. 1 for erecting a $60,000 dormitory. Address E. C. & G. C. Gardner, Archs., Springfield.

WORCESTER, MASS.—Bids are asked until Aug. 11 for erecting an 8-room school house. Chas. H. Peck, Supt.

DANBURY, CONN.—The New York, New Haven & Hartford R. R. has called for bids for erecting the new union station at Danbury on the Berkshire Division. E. E. Pratt is Supt. of Bldgs, New Haven.

WATERBURY, CONN.—Bids are wanted by the board of education until Aug. 11 for the erection of the Washington Hill school.

FULTON, N. Y.—W. D. Cross, Arch., of this city, has completed plans for the new building for the Oswego County Agricultural Society, and bids have been called for by Harry L. Pratt, Secy. The building will be 50 × 160 ft. and one-story high.

LOCKPORT, N. Y.—Bids are asked until Sept. 4 for constructing the U. S. post office building at Lockport. James Knox Taylor, Supervising Arch., Washington, D.C.

NEW YORK, N. Y.—Bids are wanted by the department of education, Park Ave. and 59th St., until Aug. 15, for the erection of a new building for school No. 91, at Albany Ave. and East New York Ave.; for constructing school 130 in Fort Hamilton Ave., and for alterations and repairs to schools 1, 8, 117, Commercial High School, Boys' High School, annex to Erasmus Hall High School, and annex to Manual Training School, all in the Borough of Brooklyn.——The "New York Times" has acquired the triangle bounded by Broadway, West 42d St. and Seventh Ave., and will at once begin the erection thereon of a steel-construction building to be ready for

occupancy early in 1904. The George A. Fuller Co. has been awarded the contract. Cyrus L. W. Eidlitz is the architect.——The Ivy Courts apartment houses in West 107th St. will be enlarged by a 6-story addition, costing about $185,000. Plans have already been filed by Wm. C. Hazlett, Arch.——Plans are under way for a 11-story office building at 391-93 Fulton St., to be known as the Williamsburgh Trust Co. building.

NEW YORK, N. Y.—Plans have been filed by Eva Jacobson, 402 E. 58th St., for a 6-story tenement, 50 × 87 ft., at 1858-60 Seventh Ave., to cost $75,000. Sass & Smallheiser, Archs., 23 Park Row; by the Hudson Realty Co., 135 Broadway, for a 6-story lofts building, 30 × 93 ft., at 144-46 W. 37th St., to cost $50,000. J. E. Scharsmith, Arch., 477 W. 144th St.; by the city for a 3-story fire engine house, 50 × 80 ft., at 105-107 W. 102d St., to cost $60,000. Horgan & Slattery, Archs., 1 Madison Ave.; by the Astoria Land Co., Long Island City, for a 6-story apartment house, 50 × 88 ft., in East 116th St., to cost $80,000. Neville & Bagge, Archs., 217 W. 125th St.; by the Metropolitan Street Ry. Co., for alterations to the 4-story car-house at Ave. B and 14th St., to cost $160,000; by Wm. C. Dewey, Springfield, Mass., for a 6-story loft building, 45 × 184 ft., at 31-33 W. 19th St., to cost $150,000. H. W. Howard, Arch., 5 E. 14th St.; by Louis Cohen, 14 W. 118th St., for a 5-story tenement, 27 × 89 ft., in 115th St., to cost $35,000. Neville & Bagge, Archs.; by Theo. B. Starr, for a 5-story clubhouse, 50 × 92 ft., at 353-55 W. 17th St., to cost $50,000. J. H. Duncan, Arch., 21 W. 24th St.; by the Children's Aid Society for a 3-story lodging house, 42 × 88 ft., at 225-27 W. 35th St., to cost $40,000. Vaux & Emery, Archs., 68 Bible House.

NEWARK, N. J.—Nathan Myers, Arch., 238 Washington St., is receiving estimates for a 5-story brick apartment at Bruce St. and 15th Ave., for Philip Lowry, to cost $40,000.——The hog abattoir of the Central Stock Yards Co., of Jersey City, situated on the Kearney meadows was destroyed by fire on Aug. 1, causing a loss of $100,000.——Michael R. Silberstein, Arch., has prepared plans for six 4-story flats for Abraham Fischman at 145-55 Charlton St., to cost about $55,000.——Work will be started soon by V. J. Hedden & Sons Co., contractors, on the construction of the new building for the American Insurance Co. at Park Place and East Park St. The cost af the building will be $230,000. It will be three stories, 75 × 124 ft. Cass Gilbert is the architect.

NEW BRUNSWICK, N. J.—Bids are asked until Aug. 18 for the erection of a $50,000 Carnegie library building. G. K. Parsell, Arch., New Brunswick.

PERTH AMBOY, N. J.—Plans are being prepared under the supervision of James Knox Taylor, Supervising Architect, Treasury Dept., Washington, D. C., for a 2-story post office building.

HARRISBURG, PA.—The plans for the new capitol building, prepared by Jos. M. Huston, Arch., 1102 Witherspoon Bldg., Philadelphia, have been accepted by the new Capitol Commission. Bids will soon be called.

PHILADELPHIA, PA.—The following bids, with specified deductions, were received by the bureau of yards and docks, Navy Dept., Washington, on Aug. 2 for erecting a pattern shop and storehouse for steam engineering, at the League Island Navy Yard: Penn Erecting Co., 1421 Filbert St., Philadelphia, (a) $75,400, (b) $75,200, (c) $72,900, $72,200, $71,500; (d) $2,362 deduct, (e) $68,000, $63,000, (f) $61,800, $56,000; (gx) $73,100, (gy) $73,000, (gz) $72,900, (h) $65,800, $59,000, $50,000; time, 12 months; L. L. Leach & Son, 1402 Marquette Bldg., Chicago, (a) $74,731, (b) $600, (c) $1,520, (d) $3,100, (e) $7,800, (f) $14,000, (gx) $4,300, (gy) $3,800, (gz) $3,300; Henderson & Co., Ltd., 1215 Filbert St., Philadelphia, (a) $79,000, (b) $540, (c) $2,000, (d) $2,963 (e) $6,390, (e) $6,140, (f) $11,830, (f) $11,330, (gx) $2,090, (gy) $1,195, (gz) $1,895, (h) $57,171.

PHILADELPHIA, PA.—John Stafford, 1112 Chestnut St., has purchased the property at 213-25 South 16th St., and will select an architect to prepare plans for an apartment house to be built this fall. It will be of brick, stone and steel, fireproof in construction, 12 stories high, 140 × 80 ft., and will cost $800,000.——Milligan & Webber, Arch., 520 Walnut St., have plans under way for a lodge building, at Broad and Spring Garden Sts., for the Lu Lu Temple, to be four stories of brick, stone, iron and fireproof construction, costing $150,000.——The Y. M. C. A. will select an architect about Oct. 1 to prepare plans for a new fireproof building, costing $500,000. Brick, stone and steel will be the principal materials. W. C. Douglas, 15th and Chestnut Sts., is the Arch.——Amos W. Barnes, Arch., 901 Walnut St., is preparing revised plans for a fireproof flat house at 22d and Ludlow Sts., to be of brick and steel, six stories high and 100 × 150 ft.——Herman Miller, Arch., Crozer Bldg., has plans in progress for a 6-story fireproof addition to the Medico-Chirurgical Hospital at 18th and Cherry Sts. Bids will be taken in October.——Bids are being taken by Henry K. Wainpole & Co., 5th and Fairmount Ave., on a one-story boiler and engine house, of brick, measuring 52 × 24 ft.——Plans are being prepared by J. Horace Cook, Arch. Bd. Education for the new Northeast Manual Training School at 6th St. and Lehigh Ave., to cost $250,000.——Chas E. Oelschlager, Arch., 1502 Market St., has finished plans and called for bids for an 8-story business building, to be erected at 610-12 Market St., for the George DeB. Keim Saddlery Co. The building will measure 38 × 118 ft., and cost $60,000.

PITTSBURG, PA.—The contract for the Duff 8-story building at 951 Penn Ave. has been let by James T. Steen, Arch., to W. P. Wood. The building will cost $100,000.

PITTSBURG, PA.—A. H. Leslie, Dir. Dept. Pub. Safety, writes that it is proposed to erect two engine houses and a municipal hospital for infectious and contagious diseases. The city is not yet ready to call for bids on the work.

WILKESBARRE, PA.—The contract for the erection of the new Luzerne county court house has been awarded by the commissioners to the Hendler Construction Co., Wilkesbarre, at $597,000. A later report state that the contractors have withdrawn their bids owing to a mistake in the figures. The other bids received for the work were as follows: Wm. M. Miller & Co., Pittsburg, Concord granite, $1,042,000; Ohio River rock sandstone, $131,000(?); time, May 1, 1904. Nelson & Buchannan Co., Chambersburg, Fox Island granite, $867,500; Cleveland No. 1 sandstone, $702,500; Sept. 1, 1904. Wilson J. Smith, Wilkesbarre, Richmond granite, $850,000; Ohio River rock sandstone, $682,000; July 1, 1905. Joseph Hendler Construction Co., Maryland granite, $777,000; Ohio River rock sandstone, $597,000; March 1, 1905.

BALTIMORE, MD.—Plans are being prepared by Hodges & Emmert, Archs., 301 North Charles St., for a fireproof addition to the Mullin Hotel Co., at Baltimore and Liberty Sts., to be seven stories, 40 × 130 ft., and to cost $75,000.

WASHINGTON, D. C.—The United Brethren in Christ, care of Rev. L. W. Burton, 53 R. St., N. W., will soon select an architect to prepare plans for a new church at North Capitol and R Sts., to cost $40,000.——Waddy B. Wood, Arch., 808 17th St., N. W., has plans in progress for a 2-story school building at 27th and K Sts., to be 80 × 80 ft., and to cost $40,000.——The George A. Fuller Co., Maryland Trust Bldg., Baltimore, Md., the builders of the proposed 8-story fireproof addition to the Willard Hotel at 14th and F Sts., N. W., will soon be open for sub-bids. Joseph F. Willard, 1403 F St., is the owner, and Henry J. Hardenburgh, 10 West 23d St., New York, the architect.——Ralph S. Townsend, Arch., 14 East 19th St., New York, is taking bids on the superstructure of a 9-story fireproof office building for Thomas F. Welsh, 1420 New York Ave., at 14th and G Sts., N. W. It will be 118 × 114 ft., and will cost $660,000.

NORFOLK, VA.—The Virginia Club, whose building was destroyed by fire, will rebuild on the former site. The plans will call for a 7-story building, costing $100,000.

MORGANTOWN, W. VA.—F. R. Comstock, Arch., 20 East 42d St., New York, is taking estimates on a 1-story stone church for the M. E. Church congregation at Morgantown, to cost $60,000.

MACON, GA.—The contract for a 5-story building at Baer's corner, Cherry and Third Sts., has been let to J. H. McKenzie & Son.

ANNISTON, ALA.—Bids are asked until Sept. 10 for the construction of the U. S. post office building. James Knox Taylor, Supervising Arch., Treasury Dept., Washington

LOUISVILLE, KY.—The plans prepared by D. X. Murphy & Bros., Louisville, for the new jail building, have been accepted by the Fiscal Court. They call for a 300-cell building, costing approximately $196,000. Bids will now be called for.

BELLEFONTAINE, O.—Bids are asked until Aug. 11 for the electric wiring, etc., for the Logan county court house. F. E. Milliken, County Audr.

COLUMBUS, O.—The First National Bank, Nicholas Schlee, Pres., will erect a 14-story bank building at High and Lynn Sts., to cost $350,000.

KINGMAN, O.—Bids are asked until Aug. 30 for the erection of a brick school house. S. P. Buckley, Clk.

PORTSMOUTH, O.—Plans will be received up to Aug. 10 for the new Carnegie Library building, to cost $50,444. E. D. Poffenberger, Secy., Box 272, should be addressed.

SPRINGFIELD, O.—Bids are asked until Aug. 18 for the construction of two 10-room school houses. O. H. Miller, Clk. Bd. Education; R. C. Gotwald, Arch., Gotwald Bldg.——The hospital board has approved the plans presented by R. C. Gotwald, Arch., for a 96-bed hospital, to cost $50,000. The contract will be let by Sept. 1.

TOLEDO, O.—Bids are asked until Aug. 14 for the erection of an annex building for employees' quarters to the Toledo State Hospital. H. H. Topey, Secy. Bd. Trustees.——Bids are asked until Aug. 16 for constructing a hospital building for the city of Toledo. C. H. Durian, Secy. Bd.

INDIANAPOLIS, IND.—The Indianapolis St. Ry. Co. is having plans prepared for a terminal station, according to reports.

INDIANAPOLIS, IND.—Herbert W. Foits, Arch., prepared the plans for the new building of the Central College of Physicians and Surgeons on the west side of Senate Ave., between Ohio and New York Sts., to cost $50,000. The building will be lighted by electricity and steam heated. It will measure 60 × 102 ft.

KENTLAND, IND.—Bids are asked until Sept. 2 for the erection of a court house for Newton county at Kentland, to cost about $50,000. Jas. F. Bruff, Arch., Kokomo.

ANN ARBOR, MICH.—Albert Kahn, Arch., 1117 Union Trust Bldg., has plans under way for remodeling the banking house of the Ann Arbor Savings Bank. The plans will be ready in about a week's time.

DETROIT, MICH.—Charlton & Gilbert, Archs., have prepared plans for the chemical building for the Michigan College of Mines.

CHICAGO, ILL.—Bids are wanted by the Committee on Buildings and Grounds, Board of Education, 730 Tribune Bldg., until Aug. 15, for constructing the South Division High School.——Eugene S. Pike will erect a 5-story warehouse, 100 × 200 ft., on North Water St., to cost $70,000.——The warehouse of the Thomas J. Lipton Co., at the Union Stock Yards, was destroyed by fire on July 30. The building was five stories high and 125 × 100 ft.——The Hartford Safe Deposit Co. has under consideration the construction of an addition to the present building at Dearborn and Madison Sts. It will be a 14-story structure, 45 × 102 ft., and will cost $175,000. The matter is in the hands of a committee composed of F. A. Hecht, D. M. Hillis and E. C. Wentworth.

LA CROSSE, WIS.—The plans for the new county court house have been accepted by the building committee of the board of supervisors. The building will be four stories, with a tower three stories in height, and will cost about $135,000.

MILWAUKEE, WIS.—A permit has been issued to the John Pritzlaff Hardware Co. for a 6-story warehouse to cost $60,000. The structure will measure 100 × 110 ft.

NORTH FREEDOM, WIS.—Bids are asked until Aug. 14 for erecting a school building. Geo. W. Hackett, Clk.

ALBIA, IA.—Bids are asked until Aug. 18 for the erection of a school house in Center District No. 7, Urbana township. Herman Snow is Secy.

DES MOINES, IA.—Bids are asked until Aug. 25 for the construction of various buildings at Fort Des Moines. R. B. Turner, Q. M.

OTTUMWA, IA.—The contract for erecting the two new university buildings for the State University of Iowa has been let to J. Rowson & Sons, Iowa City, at $128,000.

CAMBRIDGE, MINN.—Bids are asked until Aug. 1, for the erection of a 2-story brick bank building, 33 × 70 ft. Hans Engberg, Cashier, Isanti County Bank.

FORT RILEY, KAN.—Bids are asked until Aug. 25 for the construction of various buildings at Fort Riley. Capt. G. O. Cress, Constructing Q. M.

OMAHA, NEB.—Bids are asked until Aug. 12 for the erection of the superstructure of the Omaha Auditorium building. G. W. Hoobler, Secy., New York Life Bldg.

KANSAS CITY, MO.—The Manufacturers' Association will erect a new clubhouse at 10th and Wyandotte Sts., to cost between $50,000 and $75,000. The site measures 80 × 142 ft.——The Carlton Dry Goods Co. has purchased the block in 12th St., extending from Washington to Lucas Ave. The new building will cost about $500,000.——A permit has been issued to John G. Cella for a 6-story building at 2024-32 Washington Ave., to cost $75,000.

ST. LOUIS, MO.—David W. Young & Son, 45 Laclede Bldg., have secured an option on a lot downtown which he will use as the site for a new hotel to cost between $500,000 and $750,000.

ST. LOUIS, MO.—H. Wilson will build an apartment house on the north side of Cote Brilliante Ave., to cost $40,000.——The Illinois commissioners to the Louisiana Purchase Exposition recently decided to erect a building at the Exposition to cost $75,000. It will be of wood, 100 × 80 ft.——The Iowa commissioners to the Exposition have decided to allot $50,000 for the construction of a building at the fair.

BOULDER, COLO.—Bids are reported wanted until Aug. 30 for the work on a library building in this city, to cost about $75,000. G. W. Roe, Pueblo, Colo., is the architect.

GREELEY, COLO.—Bids are wanted for erecting a 12-room brick and stone school building. W. W. H. Bliss, Chn. Com. Bldgs. and Grounds.

LOS ANGELES, CAL.—The following bids were received by R. Williams, Clk. Bd. Supervisors, on July 28, for furnishing the county jail with a complete system of cells: Parcells-Greenwood Co., San Francisco, $72,300; Pauly Jail Bldg. & Mfg. Co., St. Louis, $69,983 (not completed); Champion Iron Co., Kenton, O., $77,908 (not considered, no sample); Stewart Iron Works, Cincinnati, O., $72,877; Van Dorn Iron Works Co., Cleveland, O., $75,[illegible]; Union Iron Works, Los Angeles, $56,256 (not considered, no sample).

HOLLISTER, CAL.—Bids are asked until Aug. 25 for alterations and additions to the county hospital. Jas. G. Piratsky, County Clk.

RIVERSIDE, CAL.—The Board of Supervisors of Riverside county will receive plans until Aug. 13 for the proposed county house. W. W. Phelps, County Clk.

SAN FRANCISCO, CAL.—The supervisors have granted permits as follows: F. E. Hesthal, an 8-story building on McAllister St., near Hyde; the Behlow [illegible] building on Geary St., between Stockton and Powell; Jos. Musto, a 7-story building on Taylor St., between Geary and O'Farrell; Mahony Bros., a 3-story building on corner of Spear and Mission Sts.

SAN JOSE, CAL.—The Bristol Hotel on South Second St., is to be remodeled and rebuilt at a cost of $[illegible]000. Chas. J. Martin is the owner.

SANTA BARBARA, CAL.—Plans will soon be ready for a new block to be erected by D. T. Perkins and associates; estimated cost, $60,000.

CARSON CITY, NEV.—Architects are invited to submit plans for the State Orphans' Home until Aug. 20. Orvis Ring, Secy. Bd. Dir., Carson City.

MONTREAL, QUE.—Hutchinson & Wood, Archs., have prepared plans for a 3-story building on Leber St., Point St. Charles, to be used as a Grand Trunk Literary and Scientific Institute. It will cost $35,000.

WOODBRIDGE, ONT.—Bids are asked until Aug. 18 for the building of a Manse at Woodbridge. Donald Mackenzie, Chn. Bldg. Com.

WOODSTOCK, ONT.—Architects are preparing plans for a reformatory to be built in Oxford county. Bids will be called for as soon as the plans are completed. Andrew Patullo, Woodstock, may be addressed.

VANCOUVER, B. C.—A four-story modern hotel building will be erected on Hastings St. on a site 100 × 130 ft. The new building will be of brick and stone and will cost $100,000. Emil Guenther, Arch., Inns of Court Bldg.

WATER SUPPLY AND IRRIGATION.

MANCHESTER, N. H.—The water commissioners have voted to extend the water mains on Central Ave. C. K. Walker is Supt.

COLERAIN, MASS.—Reports state that the fire district commissioners are receiving bids for constructing works to cost $5,000.

LOWELL, MASS.—The question of furnishing water supply to Dracut is being considered by the council; estimated cost, $50,000.

NATICK, MASS.—Construction of the proposed new works has been begun at a cost of about $150,000. G. W. Travis is Supt. W.-W.

PAWTUCKET, R. I.—The question of extending the filter is being considered; estimated cost, about $12,000. G. A. Carpenter is Cy. Engr.; Isaac Gill is Asst. Comr. Pub. Wks.

HARTFORD, CONN.—Allen Hazen, 220 Broadway, New York, is reported to have completed a report on the proposed filter system here, and also for a 400,000,000-gallon reservoir at Salmon Brook, Granby.

SOUTH NORWALK, CONN.—Eldridge & Bartlett, of New York, have been awarded the contract at $11,084 for building a dam and laying 7,300 ft. of vitrified pipe for the works. Michael Lubrino bid $17,713 and Salvator Chariot bid $13,396.

ARDSLEY, N. Y.—The Ardsley Heights Water Co. has been incorporated with a capital of $50,000 by Henry De F. Baldwin and Chas. J. Fay.

BLACK RIVER, N. Y.—H. C. Dexter, Chn. Bd. Water Comrs., writes us that so far only preliminary surveys have been made of the location of the proposed water supply.

COHOES, N. Y.—The water commissioners intend to engage an engineer to investigate the matter of securing a new water supply. The board is reported as opposed to the use of a water filter plant.

FONDA, N. Y.—This town has voted to buy the works of the Fonda Water Co. for $32,000. The works will be improved.

GREAT NECK (L. I.), N. Y.—It is proposed to make a contract with the Manhasset Water Co. for a water supply for this place. The question of municipal works is also being considered.

ROSLYN, (L. I.), N. Y.—Bids are asked until Aug. 18 for a water supply for the Great Neck water supply district, as described in our advertising columns. J. W. Jacobus, Engr., Great Neck, N. Y.; M. S. Wood, Town Clk.

SCHUYLERVILLE, N. Y.—This place has voted to issue $55,000 in bonds for works.

WHITE PLAINS, N. Y.—The trustees received the following bids July 22 for a new pumping station on Westchester Ave.: Geo. L. Walker, $9,500; John Emberson, $11,905; John O'Rourke, $15,250; Bellew & Merritt Co., $18,864.

MANASQUAN, N. J.—F. B. Woolley, Mayor, writes us that this place voted July 8 to build works. It is expected that construction will commence soon. Pop., 1,500.

SUMMIT, N. J.—Reports state that the Essex Union Water & Light Co. proposes to build a reservoir in Wyoming Mountain and to install new meters.

ALLEGHENY, PA.—Bids are asked until Aug. 12 for an addition to the Howard St. pumping station. D. L. Fulton, Dir. Dept. Pub. Wks.

CAMPTOWN, PA.—L. E. Jones, Town Clk., writes us that the question of works has only been considered. The water supply will be secured from a well. Pop., 300.

LANSDALE, PA.—The Lansdale Water Co. is reported to have increased its capital stock to $30,000 for making improvements to the works.

PENBROOK, PA.—The Penbrook Water Co. has been incorporated by J. N. Deeter and H. M. Homes to build works.

PHILADELPHIA, PA.—Bids are reported as wanted for a new pumping station to cost about $200,000. Geo. S. Webster is Engr. Bureau of Water Supply.

WASHINGTON, D. C.—The opening of bids for the filtration plant, advertised for Aug. 12, has been postponed until further notice, as stated in our advertising columns. Lt.-Col. A. M. Miller, U. S. Engrs., Washington, D. C.

CHASE CITY, VA.—Geo. A. Endly writes us that no steps have yet been taken regarding the building of works.

FORT MYER, VA.—The U. S. Army Q. M., it is stated, will soon ask for bids for a 60,000-gallon tank and other work at Fort Myer.

SHENANDOAH, VA.—This place has been authorized to build works and a sewerage system.

FAIRVIEW, W. VA.—This place has voted to issue $10,000 in bonds for works.

RONCEVERTE, W. VA.—We are informed that contracts for the new works are being let. Pop., 1,200. F. R. Antwerp is Engr.

CHARLESTON, S. C.—Bids are asked by the American Pipe Mfg. Co., 112 North Broad St., Philadelphia, Pa., until Aug. 15 for a dam, settling basin, etc., for the proposed new works for this city.

HERNANDO, MISS.—The question of works is being considered by a committee consisting of Mayor A. L. Jagoe, J. L. Cooke and F. C. Holmes.

MERIDIAN, MISS.—We are informed that an election was called for Aug. 2 and 4 to vote on the question of issuing $150,000 in bonds for works. Kirkpatrick & Johnson, of Jackson, Miss., are the Engrs.

RAYNE, LA.—Bids are asked until Aug. 30 for the purchase of $20,000 of 5% water-works and electric plant bonds. O. Broussard, Mayor.

COVINGTON, TENN.—The council has decided not to purchase the works of the Covington Water Co. and has appointed a committee to employ an engineer to make plans for new works and an electric plant to cost $30,000.

DICKSON, TENN.—This place will vote Aug. 28 on the question of issuing $25,000 of bonds for works.

JOHNSON CITY, TENN.—Reports state that the Johnson City Water Co. proposes to extend the works.

BELLAIRE, O.—This place has voted against issuing $50,000 in bonds for new works.

BENWOOD, O.—The council is reported as considering the question of improving the works.

CLEVELAND, O.—Local papers state that the question of building another crib for an increased water supply is being considered. G. W. Bemis is Supt. W.-W.

EAST LIVERPOOL, O.—The water board is considering the question of a filtration plant and other improvements to the works to cost about $50,000.

FREEPORT, O.—Bids are asked until Aug. 16 for constructing works. There will be 7,600 ft. of 2 to 6-in. c.-i. water pipe, hydrants, valves, reservoir, air-lift pump, etc. Pop., 700. The specifications may be seen at the office of Engineering News, 220 Broadway, New York. L. B. Williams, Mayor.

LORAIN, O.—C. L. Penney, Supt. W.-W., writes us that the extension to the works will consist of 26,000 ft. of 4, 6 and 12-in. c.-i. pipe, hydrants every 300 ft., valves, etc., to cost $32,000. No bids will be asked, unless possibly for laying the pipe.

MANCHESTER, O.—It is proposed to build works and an electric plant. Address S. I. Alexander, C. E. Kirke and J. A. Murray.

MARIETTA, O.—The question of improving the works is being considered by the trustees. J. S. H. Forner is Supt. W.-W.; E. F. Gates is Cy. Engr.

MOUNT GILEAD, O.—J. B. Weddell, Engr., of Mansfield, O., writes us that the following bids were received July 23 for works for the Mt. Gilead Water, Light & Power Co.: Massillon Iron & Steel Co., Massillon, O., pipe, average, $32 per ton; U. S. Cast Iron Pipe & Foundry Co., Cincinnati, O., $33 per ton; T. C. Brooks, Jackson, Mich., labor, $5,800; H. D. Shannon, Orrville, O., labor, $6,000; John M. Healy, Chicago, Ill., Massillon pipe and labor, $18,000 (awarded contract); Rensselear, Troy, N. Y., hydrants and valves, $1,450; Darling Pump Co., Williamsport, Pa., hydrants and valves, $1,350 (awarded contract); John H. McGowan & Co., Cincinnati, O., pumps, $1,900; Canton Pump Co., Canton, O., pumps, $1,550 (awarded contract); Chicago Bridge & Iron Co., Chicago, Ill., tower, 50,000 gallons, 129 ft. high, $4,125 (awarded contract). There will be five miles of pipe line, 2,000 ft. of 8-in., 46 tons; 12,000 ft. of 6-in., 200 tons; 12,000 ft. of 4-in., 150 tons; 48 hydrants, and 32 valves.

NILES, O.—Wm. Wilson, Cy. Engr., writes us that bids will be wanted at once for a pump well to cost $5,000, 1,000 ft. of fire hose, ¾-mile of pipe sewers, etc.

TOLEDO, O.—The pure water commission is considering the question of securing a new water supply. T. R. Cook is Supt.

XENIA, O.—John Bryan, of Yellow Springs, O., is organizing the Ohio Water Delivery & Irrigation Co., to build works and an irrigation system for the farms.

KOKOMO, IND.—Reports state that the American Water-Works Co. has had its franchise extended 12 years and the council has decided not to build city works.

MILFORD JUNCTION, IND.—Reports state that the Milford Water Co. has rejected the bids received July 24 for building works.

UPLAND, IND.—The question of works is being considered by Harry Overmyer and W. P. Gray.

GRAND RAPIDS, MICH.—The park committee will soon ask for bids for an artesian well for a water supply.

BELLEVILLE, ILL.—We are informed that the Belleville Deep Well Water Co., 920 North Main St., St. Louis, Mo., will probably soon be in the market for about a mile of 4 and 6-in. c.-i. water pipe and 15 double nozzle hydrants. The town of New Swansea has voted to have the water service. C. P. Slocum is Supt., Belleville.

CHICAGO, ILL.—The question of better fire protection in the downtown section of the city is being considered by fire insurance experts and City Engineer Ericson.

DANVILLE, ILL.—Bids are asked until Aug. 28 for a 3,000,000-gallon filter plant, and a 5,000,000-gallon pumping engine, as stated in our advertising columns, for the Danville Water Co. Daniel W. Mead, Consult. Engr., 605 First National Bank Bldg., Chicago.

HENRY, ILL.—Bids are asked until Aug. 10 for 29,000 ft. of 4, 6 and 8-in. c.-i. pipe, specials, hydrants, valves, etc., according to reports. A. G. Humphrey is Mayor.

LOVINGTON, ILL.—Reports state that this place will put in works for fire protection.

MENDOTA, ILL.—Reports state that Frank Hamilton, Cy. Engr. of Springfield, Ill., is preparing plans for extending the works. E. F. Brown is Mayor.

MORRIS, ILL.—Bids are asked until Aug. 12 for extending the works. F. W. Ridgeway, Cy. Clk.

PROPHETSTOWN, ILL.—The question of works is being considered, according to reports.

MARINETTE, WIS.—The council is reported to have practically decided to purchase the works next year.

NEW LONDON JUNCTION, WIS.—This place has voted to issue $35,000 in bonds for works and an electric plant.

EDEN VALLEY, MINN.—W. R. Salisbury, Recdr., writes us that the Challenge Wind Mill Co., of Batavia, Ill., has been awarded the contract for works. Pop., 750.

GENEVA, NEB.—H. P. Wilson, Mayor, writes us that the city has ordered about 300 Crown meters for the water service. The town proposes to build an electric plant.

LINCOLN, NEB.—The council has voted to extend the mains at a cost of $12,000. Address Councilman Lyman of the water committee.

ARKADELPHIA, ARK.—The Wilson Water & Electric Co. has been granted a 30-year franchise for its plants built in 1892. It is stated that improvements are to be made.

EGAN, S. DAK.—G. C. Taylor, Mayor, writes us that C. P. Chase, of Clinton, Ia., is preparing plans for works. The question of issuing bonds will be voted upon.

GREAT FALLS, MONT.—We are informed that Spitzer & Co., of Toledo, O., purchased on July 28 $45,000 of 5% bonds for extending the works, on condition that the legality of the issue be definitely settled. C. W. Swearingep is Cy. Engr.

BROOKFIELD, MO.—This place has voted to issue $11,000 in bonds for works.

FERGUSON, MO.—Fred. A. Reid, Mayor, writes us that this place has voted to make a contract for works with J. B. Quigley, Colonial Trust Bldg., St. Louis, for the West St. Louis Water & Light Co. Capital stock $1,000,000.

ENGLAND, ARK.—The Beakley-Swain Gin Co. has been incorporated with a capital of $30,000, to build works, an electric plant, ice factory, etc. N. B. Beakley and J. T. Swain are interested.

CISCO, TEX.—Bids will be asked at once for building works, according to reports.

DALLAS, TEX.—Bids were asked until Aug. 4 for sinking a 6 or 8-in. artesian well about 2,000 ft. I. A. Moore, Cy. Secy.

ELGIN, TEX.—Bids are asked by Chas. Gilespie, Mayor of Elgin, for installing works and an electric plant. Pop., 2,500.

VICTORIA, TEX.—Wm. Wheeler, Supt. W.-W., writes us that this city has voted to issue $7,500 in bonds for 4,150 ft. of 12-in. c.-i. water mains. Bids will soon be asked for the material. The work will be done by day labor. Chas. B. Davis, Consult. Engr., San Antonio, Tex.

ARDMORE, IND. TER.—The question of issuing bonds for works will probably soon be voted upon. Address Mayor Dick.

CHICKASHA, IND. TER.—F. A. Cole has been granted a franchise for works.

ANADARKO, OKLA. TER.—Burns & McDonnell, of Kansas City, Mo., are reported as preparing plans for works to cost $40,000. Construction will begin in about 45 days.

MEDFORD, OKLA. TER.—B. F. Evans, of the Evans Contracting Co., of Newton, Kan., which is building works for Blackwell, Pond Creek, Tonkawa, and other places, has submitted a proposition to build works here.

DENVER, COLO.—The Denver Union Water Co. is reported as negotiating for a water supply in Lake George, about 15 miles above Cheesman Lake.

GLENWOOD SPRINGS, COLO.—Geo. Ednign, Clk., writes us that no contracts will be let for the proposed works.

GOLDEN, COLO.—J. F. Vivian, Mayor, writes us that plans and specifications for new works will be ready about Aug. 15. About 12 miles of pipe, probably wooden, will be used. L. R. Hope, Engr., Denver, Colo.

GRAND LAKE, COLO.—The Berthoud Canal Co. has been incorporated with a capital of $50,000 by Albert E. Pattison and Chas. W. Everett.

PUEBLO, COLO.—The council is considering the question of installing water filters.

ELLENSBURG, WASH.—The Cascade Canal Co. will begin work at once on its proposed system to irrigate 35,000 acres of land in the Kittitas Valley. Capital stock, $250,000. S. T. Packwood, Pres.; John E. Frost, Secy.—The Kittitas Irrigation Co. proposes to build a system to reclaim about 40,000 acres of land. Address J. H. Wells.

PULLMAN, WASH.—This place has voted to lay new wooden mains and to build a 250,000-gallon reservoir.

SEATTLE, WASH.—Reports state that work on the irrigation system in the Wenatchee Valley, costing about $150,000, was begun about July 18. W. T. Clark is Mgr., and J. W. Clise is Pres.

DALLAS, ORE.—David Calbreath, Pres. Independence Light & Water Co., Independence, Ore., proposes to build works here.

INGLEWOOD, CAL.—The Inglewood Water Co. has been incorporated with a capital of $250,000 by A. C. Freeman, P. A. Stanton and H. E. Carter.

PALO ALTO, CAL.—We are informed that bonds for extending the works, to cost $25,000, will be voted about Aug. 15. There will be a well 35 ft. deep, an electric pump of 150,000 gallons capacity, new 100-K-W. generators, new 100-HP. water-tube boiler, etc., to cost about $25,000. Geo. F. Maddock, Consult. Engr., Stanford University, Cal.

RIO VISTA, CAL.—Bids are asked until Aug. 14 for one 20-HP. steam engine, boiler, etc., and 13,600 ft. of 1½ to 8-in. c.-i. water pipe, castings, two 50,000-gallon tanks, hydrants, etc. J. E. Sullivan, Pres. Bd. Trustees; F. J. Kalber, Town Clk.

SACRAMENTO, CAL.—Local papers state as follows: "A. M. Hunt, Mgr. Independent Electric Light & Power Co., San Francisco, has given out the details of the water supply which has been offered to the city. The party whom he represents has secured options on the water systems of the El Dorado Water & Deep Gravel Mining Co. and the Diamond Ridge Ditch Co., primarily to develop power for electrical purposes. It is intended to install a 10,000-HP. plant, and there is water enough to develop 20,000 HP. A ditch diverts water from the south fork of the American River and carries it to the Blakeley Reservoir, five miles east of Placerville. From this reservoir a ditch extends to Kingville, where it connects with the Diamond Ridge Ditch system extending to the American Reservoir, eight miles east of Folsom. A ditch will be extended to connect with the river. At this point power can be developed and the discharge water from the wheels will pass into the lower level canals. Silver Lake and Echo Lake are now used as reservoirs, and additional larger reservoir sites owned by the power people will be developed. The Consumnes River is an alternative source of water in case of any trouble. Water is already taken out of the north fork of the river and conducted into both ditch systems. The length of the ditch to the American Reservoir is about 120 miles. The distance from the reservoir to Placerville via the ditch is 25 miles. At least 60,000,000 gallons of water could be supplied daily in Sacramento. There are four different points at which water can be diverted. There are subsidiary reservoirs at various points on the Diamond Ridge system. By raising the dams it is proposed to increase the storage capacity of the Blakeley reservoir from 60,000,000 to 150,000,000 gallons, and that of the American Reservoir from 300,000,000 to 500,000,000 gallons. As the American Reservoir is located about 1,200 ft. above the sea level, the pressure of the water would be too great if piped directly to Sacramento. So a subsidiary reservoir will be established at an elevation of about 200 ft. above Sacramento, from which a pipe line 21½ miles in length will conduct the water to the eastern boundary of the city. The ditches will be lined with cement. It may be some time before the power plant is constructed, but the water system would be promptly put in if the city desires it."

SACRAMENTO, CAL.—This city voted July 24 to issue $150,000 in bonds for new mains. The bonds for sewers were defeated, as was also those for the high school.

SAN LUIS OBISPO, CAL.—Bids are asked until Aug. 11 for a 28-HP. gasoline engine, etc., for the water-works. Geo. W. Robbins, Cy. Clk.

SAN BERNARDINO, CAL.—The city engineer writes us that plans for about 12 miles of 4 to 20-in. c.-i. and 20-in. steel mains are being prepared. The new water supply will be secured from artesian wells and mountain streams.

WOODLAND, CAL.—The Cafay Water Co. has been incorporated to build an irrigation system to reclaim about 6,000 acres of land. C. W. Thomas, Pres. Chamber of Commerce, is interested.

TOMBSTONE, ARIZ.—Judge Benj. Goodrich has been granted a franchise for works.

VANDREUIL, QUE.—Bids are asked at once for constructing works, according to reports. T. J. Charbouneau, Engr., 15 St. Lambert Hill, Montreal, Que.

SEWERAGE.

BRUNSWICK, ME.—C. D. Humphrys, Chn. Assessors, informs us that the so-called Little village sewer system is now in course of construction. The estimated cost is $30,000, and E. W. Bowditch, 60 Devonshire St., Boston, Mass., is the designing engineer.

BEVERLY, MASS.—The city treasurer has been authorized to sell $5,000 of sewer bonds, for completing connections and the sewer now under construction through Harrison Ave.

MELROSE, MASS.—A petition has been filed asking for the referendum on the order passed by the aldermen which appropriates $100,000 for surface drainage.

BRONXVILLE, N. Y.—The contract for constructing sewers and septic tank has been let to Besch & Flynn, Troy, N. Y., for $11,900.

BROOKLYN, N. Y.—Bids are asked by the Brooklyn Borough President until Aug. 13 for constructing about 2,125 ft. 12-in. pipe sewers and various other work. J. Edward Swanstrom, Pres.

BROOKLYN, N. Y.—Bids are asked by the Brooklyn Borough President until Aug. 20 for labor and material for about 9,800 ft. 36 to 96-in. brick sewer and about 5,000 ft. 12, 15 and 18-in. pipe sewer, manholes, basins, lumber, etc. J. Edw. Swanstrom, Pres.

BUFFALO, N. Y.—Chas. H. Tutton, of the bureau of engineering, informs us that there will be no definite steps taken in Hamburg Canal sewage pumping station for a couple of months yet, owing to land questions involved, which cannot be hastened.

COHOES, N. Y.—Reports state that bids will be received about Aug. 13 for 3,600 ft. 20-in. sewer in Columbia St., and 1,600 ft. 8 and 10-in. sewer in Edward St. Edw. Hayes, Cy. Engr.

LESTERSHIRE, N. Y.—The contract for preparing plans and specifications for the system of sewers for this place has been let to Knight & Hopkins, Rome, N. Y.

LONG ISLAND CITY, N. Y.—Touhey & Co. were the lowest bidders for building the Lincoln Ave. main sewer, in Jamaica, their bid being $13,373, or about $6.72 per running foot for the 1,990-ft. main.

MT. KISCO, N. Y.—The question of sewerage for this place is being discussed.

SOUTH NYACK, N. Y.—This place has voted not to issue $6,000 of bonds for a new sewer in Washington Ave. The $6,000 bond issue for street and sidewalk repairs was also voted down.

HOBOKEN, N. J.—A citizens' committee made a report regarding the sewering of the meadow section and other lowlands of the city. The committee recommend a pumping system as the best method of drainage. The cost of such a system is estimated at $300,000.

JERSEY CITY, N. J.—The street and water board has asked for money for new sewers as follows: $15,118, new sewer system in Belmont, Gardner, Monticello and Jewett Aves.; $4,950, relief sewer in Ocean Ave.; $5,635, relief sewer in Harrison Ave.; $1,660, relief sewer in Henderson St.; $20,000, relief sewer in Division St.

LAMBERTVILLE, N. J.—The council has agreed to sewer Franklin St. from Swan to Weeden, and to employ an engineer to ascertain the best method of surface drainage for the street.

PRINCETON, N. J.—The contract for building the West End sewer has been let to R. W. Smith, Newark, N. J., for $5,032.

SOUTH ORANGE, N. J.—The village board has adopted plans and specifications of Alexander Potter, C. E., New York, for the installation of a local sewerage system. It is planned to divide the village into nine sewerage districts, each connecting with the joint outlet sewer.

QUAKERTOWN, PA.—A meeting was held July 30 to organize a corporation to be known as the Quakertown Sewerage Co., the object of which company is to establish sewers in this borough.

WILLIAMSPORT, PA.—F. A. Snyder, Cy. Engr., writes that bids are asked until Aug. 15 for constructing about 1,000 ft. of brick and pipe sewers. J. J. Galbraith, Cy. Clk.

LONACONING, MD.—The street committee has decided that 1,600 ft. of 8 and 10-in. terra cotta pipe sewers will be needed for the Jackson High Row and Scotch Hill sewers.

WASHINGTON, D. C.—Bids are asked by the district commissioners until Aug. 30 for constructing sewers in the District of Columbia, as is stated in our advertising columns.

CLIFTON FORGE, VA.—Bids will be received by the council of West Clifton Forge, Va., until Aug. 12 for laying about 6,601 ft. 6-in. pipe sewers, and 1,000 ft. 8-in. sewers, constructing 8 manholes and 4 automatic flush tanks, etc. C. L. DeMott, Engr., Clifton Forge, Va.

CONRAD, N. C.—We are informed that bonds for sewers for this city have been voted but that plans for the same have not as yet been completed, and it will probably be some weeks before bids are asked. J. L. Ludlow, Engr., Winston, N. C.

DARLINGTON, S. C.—A charter has been issued to the Darlington Sewer Co. The company propose to build a system of sewers in this place. W. F. Dargan and N. L. Harrell are incorporators.

GEORGETOWN, S. C.—This city has voted to issue $75,000 of bonds for installing sewerage and water-works. Plans for these works, prepared by J. L. Ludlow, Winston, N. C., have been adopted. J. B. Steele is a member of the board of public improvements.

AUGUSTA, GA.—An ordinance has been passed providing for the construction of about 600 ft. of 8 to 12-in. pipe sewer in alley between Cottage and Poplar Sts. and about 868 ft. 10 to 15-in. pipe sewer in Watkins St. Jacob Phinizy is Mayor.

NASHVILLE, TENN.—The contract for the construction of the Division St. sewer has been let to the Lewis Sewerage Co. for $3,973.

COLUMBUS, O.—The council finance committee has approved the bond ordinances providing for an issue of $175,000 for the West and South side sewers, $90,000 for the central relief sewers, $285,000 for the Scioto River dam and $60,000 for the workhouse.

GIRARD, O.—The question of sewerage has been considered by the village council and the mayor is to secure the services of an engineer to aid in settling the question.

MANSFIELD, O.—A resolution has been passed calling for the construction of an 8-in. sanitary sewer in Greenwood Ave. and Henry St. D. S. Koontz is Cy. Clk.

SHELBY, O.—J. B. Weddel, C. E., Mansfield, O., has, according to a local press report, prepared plans for sewage filter beds to be placed in the tube works in this city.

SPRINGFIELD, O.—The city engineer has reported that the proposed Washington St. sewer will cost $2,190, and that the 15-in. sewer, Clinton Ave., will cost $2,980.

TOLEDO, O.—Ordinances were passed July 28 for constructing cylindrical brick and pipe sewer in Superior St. and in three alleys. Chas. H. Nauts is Cy. Clk.

WAPAKONETA, O.—The contract for the Water St. sewer has been let to W. J. Howell of this city for $3,087, for standard grade sewer. The sewer is to be 1,349 ft. long.

WARREN, O.—Reports state that both John P. Force, Columbus, O., and H. E. Rigags, Toledo, O., will submit plans for the proposed new trunk and lateral sewers in North and West Warren.

INDIANAPOLIS, IND.—It has been estimated that the proposed Northwestern Ave. sewer will cost $73,000, of which sum $11,200 will be for a branch sewer and $61,800 for main sewer.

MONTICELLO, IND.—Bids are asked until Aug. 19 for extending the Washington St. sewer. Webb P. Bushnell is Cy. Engr. According to reports all bids received July 25 for sewers were rejected and the city clerk was directed to readvertise the work until Aug 22.

PARIS, ILL.—Bids are asked until Aug. 14 for constructing 5,000 ft. 8 and 10-in. sanitary sewers, as stated in our advertising columns. W. C. Lemen, Cy. Engr.; Z. T. Baum, Pres. Bd. Local Impvts.

PEORIA, ILL.—Bids are asked until Aug. 21 for constructing the Persimmon St. sewer system, consisting of 8,300 ft. of pipe and brick sewer, 38 storm water inlets, and 26 manholes, as stated in our advertising columns. H. E. Beasley, Cy. Engr.; E. A. Furry, Bd. Local Impvts.

DES MOINES, IA.—The contract for constructing about five miles of lateral sewer for the Highland Park sewer system has been let to C. C. Loomis for about $26,148. The contract for about 1¾ miles of intercepting sewer was let to W. A. Horrabin for something like $25,000.

SIOUX CITY, IA.—J. M. Lewis, Cy. Engr., under date of July 26, writes us that the council had not taken action on plans for proposed storm sewers. The system is to be 11,500 ft. long, of 12 to 24-in. pipe, and will have 90 catchbasins and 30 manholes; estimated cost, $16,500.

WATERLOO, WIS.—A local press report states that contract for the proposed Dry Run sewer will be changed so as to admit of the construction of a larger sewer than was at first planned.

MINNEAPOLIS, MINN.—A resolution has been before the council calling for the submission to the citizens of the proposition for the issuance of $350,000 of sewerage and street improvement bonds.

ST. PAUL, MINN.—Bids are asked until Aug. 20 for the construction of a sewer system at Fort Snelling, Minn. Geo. E. Pond, Ch. Q. M., St. Paul, Minn.

GRAFTON, N. DAK.—The contract for putting in the sewer system in this city has been let to James Kennedy, Fargo, N. Dak., for $14,501. The contract includes 15,493 ft. pipe, 35 manholes and 87 catchbasins.

GREAT FALLS, MONT.—Bids are asked by the city council until Aug. 11 for the construction of five blocks of 9-in. sewers. C. W. Swearingen is Cy. Engr.

HAVRE, MONT.—This city has voted to issue $10,000 of bonds for the construction of sewers and the city clerk has been instructed to advertise for bids for the purchase of the bonds.

GALVESTON, TEX.—C. G. Wells, Cy. Engr., informs us that it is proposed to lay about 4,800 ft. of 18, 24, 30 and 36-in. pipe sewers; average cut 3 ft.; estimated cost, $16,500. The work will be done by the city with day labor.

LOCKHART, TEX.—The contract for putting in a system of sewers for this city has been let to Thomas Hodges.

SAN ANTONIO, TEX.—E. G. Trueheart, Cy. Engr., writes us that the proposition for the issuance of $40,000 of street improvement bonds was turned down at the recent election.

SHERMAN, TEX.—An election is to be held Aug. 19 to vote on the issue of $50,000 of bonds, $20,000 of which are for sewerage and the rest for the betterment of the water supply.

SEATTLE, WASH.—R. H. Thomson, Cy. Engr., writes us that the city council has appropriated the sum of $20,000 for the purpose of constructing septic tanks, and developing portions of the city that are tributary thereto. These districts border on Lakes Union and Washington, and are in a very hilly country.

MILK VALLEY, CAL.—T. Blair Turpin, Pres. Bd. Trus., writes us that the town contemplates the improvement of all its sewers, roads and bridges. For doing this work a $40,000 bond issue is under contemplation. A. D. Avery is Town Engr., P. O., Eastland.

SACRAMENTO, CAL.—The proposition to bond the city for $450,000 for a new sewer system was defeated at the recent election.

GARBAGE DISPOSAL—STREET CLEANING

SPRINGFIELD, MASS.—The council is considering a proposition from the U. S. Garbage Reduction Co. A. C. Day, Pres., Sangus, for a garbage crematory.

NEW YORK, N. Y.—Bids are asked by the department of street cleaning, 13 Park Row, until Aug. 13, for 20 dumping trucks.

BURLINGTON, N. J.—The U. S. Garbage Reduction Co. has asked for a franchise.

EAST ORANGE, N. J.—John Finan has submitted the only bid at $7,800 a year for collecting and disposing of the garbage for two years. It is reported that the council will ask for new bids. Address Mayor Bruen.

HARRISBURG, PA.—The board of trade is urging the council to build a crematory here or to grant a franchise for a plant.

WESTCHESTER, PA.—The question of either building a crematory or of letting a contract for disposing of the garbage is being considered.

CANTON, O.—P. H. Weber, Cy. Engr., writes us that the Dixon Crematory Co., of Toledo, O., has been awarded the contract at $19,985 for a crematory.

LANSING, MICH.—The Capital City Garbage Co. has been awarded the contract for collecting the garbage for one year.

DUBUQUE, IA.—The Mississippi Improvement League is reported as considering the question of organizing a company to remove the garbage and to build a plant to cost $5,000.

SEATTLE, WASH.—Health Officer Carroll has laid plans before the council for a crematory to cost about $75,000.

LOS ANGELES, CAL.—We are informed that the following bids were received July 28 for removing and caring for the city garbage; C. H. Hand, Cy. Clk.: Ramish & Farsh, 303 Wilson Bldg., 102 S. Spring St., reduction system $13,800 per year, crematory system $14,700 per year; Franklin & Alexander (Dixon Crematory), 201 Currier Bldg., $1,250 per month; P. A. Howard (style crematory to be determined by board of health), 2630 Dayton Ave., $1,473 per month.

STREETS AND ROADS.

EVERETT, MASS.—C. Harrison, Cy. Engr., informs us that a contract is to be entered into with Warren Bros. for paving about 5,200 sq. yds. of Main St. with bituminous macadam; amount of money appropriated for the work, $12,000.

LOWELL, MASS.—We are informed that the city council has passed an order to pave with asphalt, portions of four streets; total number of sq. yds., about 12,800. George Bowers, Cy. Engr.

GREENWICH, CONN.—S. D. Minor, Trust Co. Bldg., informs us that all bids for macadamizing about 6,000 ft. of road for the Field Point Land Co. were rejected.

HARTFORD, CONN.—State Highway Commissioner MacDonald has awarded the following contracts for macadamizing: Manchester, A. C. Sternberg, West Hartford, $5,200; Windsor, B. D. Pierce, Jr., Co., Bridgeport, $1,300. The contract for three sections of gravel road in Plainfield was let to A. Brazos & Sons, Middleport, for $4,140, and the town of Norwich itself took the town contract for road building for $5,200.

BROOKLYN, N. Y.—Bids are asked by the Brooklyn Borough President until Aug. 13, for constructing sidewalks and regulating and repaving various streets and avenues. J. Edw. Swanstrom, Pres.

FULTON, N. Y.—Bids are asked until Aug. 15 for constructing 5,000 sq. yds. trap rock macadam and 5,000 lin. ft. stone curbing, as is stated in our advertising columns. O. C. Breed, Cy. Engr.; W. M. Hinsdale, Cy. Clk.

LONG ISLAND CITY, N. Y.—Bids are asked by the Queens Borough President, until Aug. 14, for regulating and repaving with asphalt about 38,000 sq. yds. of paving, curbing, etc. Joseph Cassidy, Pres.

NEW YORK, N. Y.—During the next two weeks Louis F. Haffen, Bronx Borough Pres., will open bids for $3,000,000 worth of public improvements. The chief contract will be for grading and regulating the Grand Boulevard and Concourse, for which $1,052,000 has been appropriated. Bids for this work will be opened Aug. 18. The principal items in this work are as follows: Earth excavation, 298,000 cu. yds.; rock excavation, 402,000 cu. yds.; filling, 663,000 cu. yds.; curb stone, 39,500 ft.; flagging, 308,800 ft.; macadam, 180,000 sq. yds.; paved gutters, 33,300 sq. yds.; lumber, 65,000 ft.

NEW YORK, N. Y.—Bids are asked by the park department, Arsenal Bldg., until Aug. 14 for improving existing road and constructing walk in Bronx Park Zoological Gardens. Wm. A. Wilcox, Park Comr.

ONEIDA, N. Y.—We are informed that bids will be received by the city until Aug. 21 for about 39,000 sq. yds. of vitrified brick paving on Main and Lenox Sts. W. R. Vedder, Cy. Engr.

TROY, N. Y.—The contract for improving the Greensburg pike, from Turtle Creek to Wilkinsburg, has been let to W. E. Howley for $59,945.

MORRISTOWN, N. J.—Bids are asked by the Morris county freeholders until Aug. 12 for furnishing crushed trap rock for use on county and state roads. G. A. Becker, Dir.

CHESTER, PA.—Ordinances have been passed for the curbing and paving of sidewalks on three or more streets.

EAST WASHINGTON, PA.—This borough has voted in favor of an issue of $30,000 of street paving bonds.

MAUCH CHUNK, PA.—Reports state that bids are to be called for soon for about ⅝ of a mile of vitrified brick paving from Susquehanna St. to the jail. Asa P. Blakslee, is Pres. Council.

READING, PA.—The council has appropriated $10,500 to pay for the paving of Cherry St. with repressed vitrified shell block.

WASHINGTON, PA.—An election is to be held Aug. 30 to vote on a proposed bond issue of $150,000 for street paving.

WILLIAMSPORT, PA.—Bids are asked until Aug. 20 by the Brandon park commission for about 2,600 sq. yds. macadam pavement. Frederick A. Snyder, Cy. Engr.

FREDERICK, MD.—Bids are asked until Aug. 9 for paving about 3,800 yds. with vitrified brick or blocks and 1,600 ft. curbing. Geo. E. Smith, Mayor.

KENSINGTON, MD.—This village has sold its improvement bonds, and of the money accruing $4,000 will be used for sidewalks and $1,000 for street improvements.

NORFOLK, VA.—It is proposed to issue $50,000 for street paving.

CLIFTON FORGE, VA.—Bids are asked by the council of West Clifton Forge, Va., until Aug. 12, for about 14,800 cu. yds. grading, 2,481 sq. yds. granolithic sidewalks, 362 sq. yds. brick sidewalks and 14 street crossings. C. L. De Mott, Engr., Clifton Forge.

MEMPHIS, TENN.—The fire and police commissioners have ordered the city engineer to prepare advertisements for paving 12 streets with asphalt. About 151,000 sq. yds. of asphalt will be laid.

CLEVES, O.—The question of a $20,000 bond issue for street improvements is to be voted on at a coming election.

PORTSMOUTH, O.—The contract for paving New Fifth St. with Portsmouth block has been let to James A. Kelley for $10,403.

WAPAKONETA, O.—A special election is to be held Aug. 25 to vote on the issuance of $30,000 of street improvement bonds. Sam'l Craig is Cy. Engr.

WARREN, O.—Bids are asked until Aug. 25 for labor and material for paving on West Market St. and Porter Ave. with brick, asphalt block or macadam. A. L. Jameson, Cy. Clk.

BRAZIL, IND.—Bids are asked until Aug. 19 for constructing a 5-ft. cinder sidewalk on both sides of High, Valby and Alabama Sts. Jos. W. Williams, Cy. Clk.

NEWPORT, IND.—Bids are asked until Aug. 19 for constructing about 21 3-5 miles of gravel roads in Clinton township. Wm. P. Bell, Co. Audr.

BELDING, MICH.—A committee, of which W. F. Bricker is a member, has been appointed to find the best method for securing the paving of Main St.

MENOMINEE, MICH.—An election is to be held Aug. 14 to vote on the question of paving Main St. with brick at an estimated cost of $50,705. Albert Hass is Cy. Engr.

ST. CLAIR, MICH.—Reports state that bids are to be called for at once for about 30,000 sq. yds. of brick paving.

THREE RIVERS, MICH.—A proposition has been carried to issue $24,000 of bonds for paving Flint Ave. and St. Joseph St., and $15,000 of bonds for a new bridge across the St. Joseph River.

JOLIET, ILL.—A public hearing is to be held Aug. 11 regarding the asphalting of Bluff St., the cost of which is estimated at $13,647.

CHAMPAIGN, ILL.—The contract for paving [illegible] St. has been let to J. W. Stipes, Champaign, for $1[illegible]. The contract for paving on Hickory St. was also [illegible] to Stipes for $3,518.

PARIS, ILL.—Bids are asked until Aug. 14 for [illegible] sq. yds. brick pavement on concrete foundation, 2,6[illegible] ft. stone curbing, and 6,100 ft. combined curb and gutter, as is stated in our advertising columns. W. C. Lemen, Cy. Engr.; Z. T. Barnes, Pres. Bd. Local Impvts.

MEDFORD, WIS.—Bids are asked until Aug. 16 for constructing 3,117 ft. cement curb and gutter, 9,400 sq. yds. macadam, 3,063 ft. 6, 8 and 10-in. water mains, hydrants, sewer connections, 1,601 ft. 12, 20 and 24-in. sewers, [illegible] as is stated in our advertising columns. J. H. Wheeler, Cy. Clk.

MENOMINIE, WIS.—As a test it has been decided to pave two blocks on Main St. and two blocks on Broadway, with Menominie paving brick.

MILWAUKEE, WIS.—Press reports state that the board of public works is to readvertise for bids for repaving the 16th St. viaduct with creosote blocks. At the first call for bids Paul Froeming was the lowest bidder at $47,000.

CEDAR FALLS, IA.—The contract for the city paving has been let to the Likes Improvement Co., Des Moines, Ia., for about $30,000.

DES MOINES, IA.—The council has ordered that East Walnut St. be paved with asphalt, about 20,000 yds. of paving in all.

IOWA CITY, IA.—The city engineer has prepared estimates of the cost of paving College and Summit Sts. The total amount of paving is 19,030 sq. yds., and the cost is estimated at $30,246.

LINCOLN, NEB.—Bids are asked until Aug. 11 for paving the roadways, repaving in District No. 14 with asphalt and brick gutters and repaving District No. 18 with vitrified paving brick or blocks. Geo. L. Campen, Cy. Engr.

ST. LOUIS, MO.—The following are the lowest bids received for street improvement work since the adoption of the charter amendments: Paving with vitrified brick Academy Ave., Heman Construction Co., $35,375; Olive St., Heman Construction Co., $11,469; Walton Ave., Heman Construction Co., $5,126; Walton Ave., between Olive St. and Delmar Boulevard, Heman Construction Co., $5,598; St. Ferdinand Ave., Hill-O'Meara Construction Co., $19,479; Page Boulevard, Gilsonite Construction Co., $41,260; 18th St., Gilsonite Construction Co., $14,087; Park Ave., Gilsonite Construction Co., $14,312. A hearing is to be held Aug. 15 regarding the improvement of four roads and avenues.

LITTLE ROCK, ARK.—Bids are asked until Aug. 9 for constructing ten blocks of paving on West Markham St. F. M. Oliver, Clk. Bd. Pub. Affairs.

DALLAS, TEX.—Estimates of the cost of repaving certain streets with asphalt have been made by Leon Dalton, Asst. Cy. Engr., as follows: Elm St., 14,793 sq. yds., $13,981; Akard St., 1,776 sq. yds., $4,440; Ervay St., 896 sq. yds., $2,240.

GALVESTON, TEX.—C. G. Wells, Cy. Engr., informs us that 7,094 sq. yds. of vitrified brick paving (estimated cost, $12,550) is to be laid by the city with day labor. The paving is to be laid on a natural foundation of fine sand only.

DENVER, COLO.—The contract for grading, box drains and crosswalks for Mount View Improvement district No. 1, has been let to T. J. Tully for $13,328, and the contract for combined curbing and gutters has been let to the Parkhurst Curbing Co., Indianapolis, Ind., for $12,964.

SEATTLE, WASH.—The contract for grading on First Ave., South, has been let to Stirrat & Goetz for about $22,780. About 39,000 cu. yds. of filling will be required.

MILK VALLEY, CAL.—T. Blair Turpin, Pres. Bd. Trustees, writes us that Milk Valley contemplates the improvement of its roads, sewers and bridges, and that a $40,000 bond issue for these purposes is now under consideration. A. D. Avery, Engr., P. O., Eastlake.

OAKLAND, CAL.—The supervisors have adopted a resolution directing the county surveyor to prepare plans for macadamizing the San Leandro road, at a cost of $7,000, and also for a sewer, to cost $10,000.

LEWISTON, IDAHO.—A special election is to be held Aug. 28 to authorize the issue of $10,000 of street improvement bonds.

PEMBROKE, ONT.—The contract for a macadam roadway on Pembroke and Mackay Sts. has been let to T. S. Kirby & Co., Ottawa, for $10,400.

WHITBY, ONT.—Bids are asked until Aug. 9 for material and labor for about 7,000 ft. of cement sidewalks. Joseph White, Town Clk.

TORONTO, ONT.—We are informed that the following bids were received July 22 for asphalt, cedar block, tar macadam and other paving; Chas. W. Dill, Asst. Engr., City Hall: Constructing & Paving Co., 1 Toronto St., Soho St., $2,295; Louisa St., $7,179; Delancy St., $1,549; Givens St., $1,897; Dale Ave., $5,175; Howland Road, $3,697; Wells St., $4,123; Beatrice St., $1,720; Mackenzie Ave., $3,819. Dominion Paving & Contracting Co., 309 Temple Bldg., Cross St., $2,500; Marlborough Ave., $1,100; Munroe St., $6,000. A. J. Brower, 405 Carlton St., Nanton St., $2,269. A. Chamberlain & Co., 16 Rose Ave., Grant St., $3,355.

MANUFACTURING PLANTS.

BOSTON, MASS.—It is reported that the American Radiator Co. has purchased two acres of land in Hyde Park, and will erect a new factory.

BUFFALO, N. Y.—Local papers state that the Buffalo & Susquehanna Iron Co. is letting contracts for building its plant and furnishing the machinery. The plans and specifications are completed, and the contract for the two blast furnaces has been let to the Riley-Conley Mfg. Co., of Pittsburg, Pa. Each furnace will be 22 × 80 ft., containing four hot blast stoves, 22 × 90 ft. This contract also includes the engine houses, boiler houses, casting houses, etc. The next contract will be for the blowing engines. The company intends to build a slip on the lake front to be about half a mile long and 100 ft. wide. The Pennsylvania R. R. Co., alongside, will probably build a similar slip. Hugh Kennedy is Engr.; Julian Kennedy is Consult. Engr., Pittsburg, Pa.; Wm. R. Rogers is Pres.

WESTFIELD, N. J.—The Manning, Maxwell & Moore Co., of New York, has selected a site at Garwood for the erection of a 2-story factory for the manufacture of iron-working machinery.

CANNONSBURG, PA.—The Standard Tin Plate Co., of Cannonsburg has been organized with a capital stock of $300,000, and will erect an 8-mill plant on a site donated by the Cecil Improvement Co., in the East End. Work on buildings will be started at once. E. Jeffries is Pres. and Gen. Mgr., and M. V. H. Cook, Treas.

CATASAUQUA, PA.—Bids will be taken in about two months by the Union Foundry & Machine Co., A. W. Findlay, Mgr., for the erection of a 1-story addition to its foundry, to be 100 × 60 ft. New equipment will be required.

CHESTER, PA.—The Soap & Glycerine Mfg. Co. will soon award a contract for erecting a 2-story brick manufacturing building at the foot of Market St., to measure 50 × 185 ft.

EDEN, PA.—The Cecil Paper Co., of Baltimore, Md., has purchased the Beltonford Paper Mill property at Eden, and will improve and enlarge the mill.

HEIGHTSTOWN, PA.—The contract for a 3-story rug factory for Cook & Moody will soon be awarded. The building will be three stories, 48 × 128 ft., of brick and slow-burning construction.

LANCASTER, PA.—Plans are being prepared for a manufacturing plant for the Lancaster Castings Co., A. W. Findlay, Mgr., Catasauqua. It will consist of a foundry building, machine shop and a carpenter and pattern shop, one or two stories in height, of brick, with steel roof trusses. The cost will be about $30,000.

MORRISVILLE, PA.—The Goodyear Vulcanite Rubber Co. has purchased ground at Morrisville, and will erect at once four buildings, 40 × 275 ft., each two stories high, for a plant in addition to their present one. The company will spend $125,000 on the new buildings, and $175,000 more on new machinery and equipment.

PHILADELPHIA, PA.—The Hall & Kilburn Co., 48 North Sixth St., announce that they will be ready for estimates for their new building at 18th St. and Glenwood Ave. in September. Lockwood, Greene & Co., 93 Federal St., Boston, are architects.

PITTSBURG, PA.—The Dewey Iron & Steel Co., recently incorporated, will build and operate furnaces and mills, investing several millions in the enterprise.

SCRANTON, PA.—The Vellevue washery of the Lackawanna Co. was destroyed by fire on Aug. 1 at a loss of $25,000.

SHARON, PA.—The National Rolled Steel Car Co. has secured a site near Mercer and will erect a car works. The company is capitalized at $600,000, which amount will be increased to $3,000,000 as soon as the work of construction begins. The present plans call for blast furnaces and rolling mills.

WYNCOTE, PA.—Holt & Schober, Engrs., Bourse Bldg., Philadelphia, are ready for bids for the construction and equipment of a plant at this place for the Jenkintown Ice Mfg. Co., to be of brick and iron, one story high, and 140 × 60 ft.

BALTIMORE, MD.—The Hammond Ice Co., O. Hammond, Pres., Maryland Trust Bldg., is ready for bids on a building and equipment for the manufacture of ice. It will be of brick and steel, two stories high, 150 × 200 ft., costing $150,000. The daily capacity will be 500 tons.

RICHMOND, VA.—It is reported to have been definitely announced that the Imperial Tobacco Co. of Great Britain and Ireland will soon begin the construction of a large plant in this city.

WHEELING, W. VA.—It is reported that Follansbee & Co., of Pittsburg, have bought near 200 acres of land near Wheeling and propose to build a plant to consist of four tin mills and four sheet mills.

CHARLOTTE, N. C.—It is reported that J. B. Duke, Pres. American Tobacco Co.; B. D. Duke, Secy. of that company, and George W. Watts, of Durham, have decided to build a cotton mill in their water power on the Cape Fear River, in Harnett county. The promoters have purchased about 5,000 acres of land and have made preparation to lay out their village and mill buildings. The proposed plant will be a demin mill of 70,000 spindles and 2,000 looms, and will employ 2,000 hands. Streets will be laid out by the engineers and arrangements made for water supply, electric lights, and the erection of houses for the employees.

HUNTSVILLE, ALA.—It is reported that the Merrimac Mfg. Co., of Lowell, Mass., has decided to erect a second mill of 25,000 spindles to be operated in connection with its mill at Huntsville.

COLUMBIA, S. C.—A commission for a charter has been issued to the Anderson Machine & Foundry Co., of Anderson, with a capital stock of $10,000. C. S. Sullivan, R. E. Burris and A. S. Farmer are interested.

MERIDIAN, MISS.—F. S. Kaye, of the Meridian Ice factory, has stated that within a few days new machinery will be installed in the plant. The new apparatus will increase the capacity of the plant to about 62 tons per day.

CHATTANOOGA, TENN.—Reports state that the Valley Iron Co., with a capital stock of $1,000,000, will be organized this month to develop the mineral lands near Chattanooga. Blast furnaces of 200 tons capacity will be erected.

CLEVELAND, O.—H. Seelye Cole, Arch., will design the new factory building for the Horton Mfg. Co., of Painsville.

EVANSVILLE, IND.—The Lincoln Cotton Mill Co. has taken out articles of incorporation and will locate in this city. C. R. Makepeace & Co. are now drawing the plans for the works.

CHICAGO, ILL.—The Winslow Bros. foundry was damaged by fire on July 23 to the extent of $100,000.

FOND DU LAC, WIS.—The Giddings & Lewis Mfg. Co. is preparing plans for the complete remodeling of its foundry and machine plant. Plans have been drawn for a new suite of offices to be built at the northwest corner of the plant. New machinery will be installed, including a 24-ton traveling crane.

MILWAUKEE, WIS.—Philip Goerres has purchased three acres of land at Fond du Lac Ave. and 32d St., upon which he will erect a cooperage establishment, to cost $50,000. The principal building will be 50 × 158 ft.

MINNEAPOLIS, MINN.—The Allis-Chalmers Co. will build the new Washburn-Crosby mill to replace the Humboldt.

DALLAS TEX.—The Anheuser-Busch Brewing Association of St. Louis has recently purchased two blocks of land at the Harwood St. crossing of the Texas & Pacific R. R. It is announced that the company will soon begin the erection of an ice-making and storage plant to cost $400,000.

LOS ANGELES, CAL.—The Merchants Ice & Cold Storage Co., capitalized at $500,000, will erect an ice and cold-storage plant in this city. The main building will be three stories high, 126 × 126 ft., with additions of one story, 40 × 50 ft., 100 × 120 ft. and 96 × 90 ft. Brick and steel will be used in construction, and very little wood. It is proposed to expend about $155,000 on the works. John D. Pope is Pres., and P. M. Green, Pasadena, Vice-Pres.

OAKLAND, CAL.—T. P. H. Whitelaw has purchased several acres of land at the upper end of the estuary and will erect an iron rolling mill and steel works.

SALT LAKE CITY, UTAH.—The stockholders of the Stockton Mining & Milling Co. have decided to begin the erection of a concentrating plant at once. Manager Treham will have charge of the work.

WINDSOR MILLS, QUE.—The Canada Paper Co. has let the contract for the rebuilding of its plant at this place to Greenleaf & During, Lewiston, Me. The contract calls for the erection of seven brick and steel buildings at a cost of $250,000. Bids will soon be asked for $200,000 worth of machinery. For further particulars General Manager Campbell or W. H. Parsons, Secy.-Treas., Windsor Mills, may be addressed.

GUELPH, ONT.—Bids are wanted by the Guelph Worsted Spinning Co. until Aug. 5 for the erection of a large spinning mill factory at Guelph. W. Freye Colwill, Arch.

TORONTO, ONT.—It is stated that a new distillery will be built in the suburbs of Toronto at a cost of $750,000. Gooderham & Worts, Toronto, and H. Walker, Walkerville, both distilling firms, are interested in the plan. The equipment will probably cost in the neighborhood of $250,000.

MISCELLANEOUS CONTRACTS.

DOCK.—Perth Amboy, N. J.—According to reports the building of large docks at this place is contemplated by the asphalt combine.

PILES AND STONES.—St. Louis, Mo.—Bids are asked until Aug. 27 for furnishing piles and stones. Maj. Thos. L. Casey, U. S. Engrs.

DOCKS.—Oshkosh, Wis.—Reports state that the Simmons Mfg. Co., Oshkosh, is to establish docks at Pattersons Point, Lake Michigan.

FIRE-ALARM SYSTEM.—Redlands, Cal.—The fire and water committee have been considering the question of adopting some kind of a fire alarm system.

SEA WALL.—New York, N. Y.—The contract for constructing the sea wall between East Marion and Orient, L. I., has been let to Jos. Hanigan, for $13,385.

CONDUIT SYSTEM.—Newcastle, Pa.—The contract for building the municipal underground system of conduits has been let to Regan & Muloch Co., for $40,908.

UNDERGROUND CONDUITS.—Butte, Mont.—The council has been considering an ordinance requiring that all overhead wires, save trolley, be placed underground.

WHARF AND BREAKWATER.—Quebec, Que.—The public works department, Ottawa, has prepared plans for the proposed new wharf and breakwater at Quebec.

FIRE HOSE.—Niles, O.—Wm. Wilson, Cy. Engr., informs us that the council proposes to buy about 1,000 ft. of fire hose and a few ladders for the fire department.

BRICK.—Aiken, S. C.—Bids are asked for manufacturing 1,000,000 or more brick at Aiken, S. C. J. J. Huddert, Arch., 40 Bank Block, Denver, Colo.

CLAY.—Chicago, Ill.—Bids are asked by the South Park Commissioners, 57th St. and Cottage Ave., until Aug. 13 for furnishing 1,300 cu. yds. of clay in Jackson Park.

DRY-DOCK.—Portland, Ore.—The contract for constructing the dry-dock in this city has been let to Robert Wakefield, of the Portland Bridge & Building Co., for $162,000.

DRAINAGE.—Webster City, Ia.—Bids are asked until Aug. 25 for constructing the Elwich drainage ditch; estimated amount of excavation, 26,000 cu. yds. Edw. E. Fox, C. E.

DREDGING.—New York, N. Y.—Bids are asked until Sept. 3 for dredging in Buttermilk Channel and Gowanus Creek, as ssated in our advertising columns. Maj. W. L. Marshall, U. S. Engrs.

DAM.—Charleston, S. C.—Bids are asked until Sept. 3 for building Chanoine dam 376 ft. long, across Congaree River, as is stated in our advertising columns. Capt. J. C. Sanford, U. S. Engrs.

BREAKWATER.—Boston, Mass.—The harbor and land commissioners have awarded the contract for the construction of the stone breakwater at Apponagansett Harbor to E. S. Belden & Sons, Hartford, Conn.

FIELD RANGES.—Jeffersonville, Ind.—Bids are asked by the depot quartermaster, at this city, until Aug. 13 for furnishing 800 field ranges. J. M. Marshall, Asst. Q. M.-Gen.

STREET SIGNS.—Brooklyn, N. Y.—Bids are asked by the Brooklyn Borough President, until Aug. 13, for furnishing and erecting 1,000 illuminated street signs. J. Edw. Swanstrom, Pres.

DREDGING.—New Orleans, La.—Bids will be received at the Custom House, New Orleans, until Sept. 2 for dredging at Calcasien Lake and Sabine Pass Harbor, Tex., as is stated in our advertising columns.

TRAMWAY.—Spokane, Wash.—Reports state that the Columbia Tram Co. is arranging to construct and operate a two-mile aerial tramway on the Columbia River, near Waterville. F. McKinney, Spokane, is interested.

DAM.—New Orleans, La.—A joint session of the Atchafalaya and Lafourche levee boards has requested the state engineers to prepare plans and specifications for the construction of locks near the head of bayou Lafourche.

LIGHT-HOUSE.—Portland, Me.—It is stated that plans are being prepared for the Ram Island light-house and that actual construction work will begin by next fall. The sum of $166,000 has been appropriated for the station.

DAM AND SHORE PROTECTIONS.—Rock Island, Ill.—Bids are asked until Aug. 30 for constructing and repairing dams and shore protections, as is stated in our advertising columns. Maj. C. McD. Townsend, U. S. Engrs.

CREEK IMPROVEMENT.—Syracuse, N. Y.—It has been definitely decided to have the $40,000 creek improvement done by contract, and plans are to be rushed so that bids may be called early in August. F. J. Schnauber is Cy. Engr.

GUARD GATE REPAIRS, ETC.—Cincinnati, O.—Bids are asked until Aug. 25 for repairing and reconstructing abutments and miter sill at guard gates at Lock No. 7; also for repairing, with concrete, about 200 ft. of dam No. 7.

GLASS BLACKBOARDS.—Washington, D. C.—Bids are asked by the district commissioners until Aug. 13 for glass blackboards for the McKinley and Armstrong Manual Training Schools, as is stated in our advertising columns.

SLUDGE PUMPING PLANT.—New York, N. Y.—Bids are asked by the Brooklyn Borough President, until Aug. 20 for material and labor for installing two 6-in. centrifugal pumping plants at Coney Island. J. Edw. Swanstrom, Pres.

TUNNEL.—Oakland, Cal.—Deputy County Surveyor Haviland has made detailed plans for the proposed Alameda-Contra Costa county tunnel. The tunnel will be about 1,100 ft. long, horseshoe shaped, with a width of 17 ft. at the base and a height of 20 ft.

WALL.—Atlanta, Ga.—Bids are to be called for soon for furnishing the stone for a wall to be constructed around the Atlanta federal prison. The wall is to be 30 ft. high, 12 ft. wide at the base and 4 ft. wide at the top. The cost of the wall will be about $500,000.

MINING TOWN.—Pittsburg, Pa.—A company has been formed to build a mining town and develop coal land, in Barbour county, West Virginia. The company owns 3,500 acres of land and is capitalized at $350,000. John Hodgson, McKeesport, is one of the incorporators.

MACHINE TOOLS, ETC.—Washington, D. C.—Bids are asked by the bureau of supplies and accounts, Navy Department, until Aug. 12, for furnishing at the Mare Island, Cal., navy yard, machine tools, motors and transformers. A. S. Kenny, Paymaster General, U. S. N.

SHIP YARD IMPROVEMENTS.—Manitowoc, Wis.—Burger & Burger, owners of the shipbuilding yard and dry dock at this place, have announced the sale of the property to a Chicago syndicate, composed of Capt. John Prindiville, Ellis Grunnell and Charles West. Improvements will be made by the new owners, and a steel plant established so that steel ships can be turned out.

SIDE WALLS AND SEWER.—Boston, Mass.—The following bids have been received by the Boston Transit Commission for constructing sidewalls and sewer in State St.: Jones & Meehan, $141,555; Metropolitan Construction Co., $131,555; Patrick McGovern, $126,310.

DREDGING.—Buchanan, Mich.—An inland dredge or ditching machine is wanted for a job of dredging on the St. Joseph River, in Michigan. The total amount will not exceed 15,000 cu. yds., but it is desired to have the work finished quickly. H. Schreiber, Engr., Box 132.

PIPE LINE.—Los Angeles, Cal.—Local reports state that a survey is being made for an oil-pipe line extending from the Kern county oil field to tidewater at Morro Bay. The survey is being made, it is said, at the instance of the Associated Oil Co. The enterprise if carried out will cost about $3,000,000.

MINING PLANTS, ETC.—Los Angeles, Cal.—Improvements, according to reports, are to be made to the property of the Yellow Aster Mining & Milling Co., in the Randsburg district. Among other improvements, the company will erect a large cyanide plant capable of handling 500 tons of ore daily.

HARBOR WORK.—Louisville, Ky.—The report of Major E. H. Ruffner, in charge of river and harbor work at this place, shows a balance of $63,257 for the improvement of the falls of the Ohio River at Louisville. He also estimates that $557,509 will be required to complete the work, of which sum he recommends that $355,000 be appropriated for the next fiscal year.

DRAINAGE CANAL.—Osceola, Ark.—Bids are asked by the county clerk until Aug. 20 for dredging about 13 miles of drainage canal, involving the removal of 223,000 cu. yds. earth, as is stated in our advertising columns. We are informed that surveys are now being made for about 45 miles of additional drainage ditches; bids for dredging these will be called for some time this fall.

COAL TIPPLES.—Pittsburg, Pa.—A local press dispatch states that the Monongahela Consolidated Coal & Coke Co. has had plans made to turn a production of 3,000,000 tons to the market next year over railroad tipples. According to the report the Monongahela company is to put rail tipples at several mines, which can be made rail-shipping mines as soon as there are railroad facilities.

DAM.—Wilmington, Del.—The following bids were received Aug. 1 for a dam across the Brandywine River; Theo. O. Leisen, Ch. Engr. Parks: Patterson & Co., Baltimore, Md., $7,342; A. S. Reed & Bro. Co., Wilmington, Del., $5,847; A. L. Tyre, Wilmington, Del., $5,680; Alvan R. Morrison, Wilmington, Del., $5,500; Tucker & Vinton, New York, N. Y., $5,300; Simmons & Bro., Wilmington, Del. (awarded contract), $4,451.

BATTLESHIP.—Washington, D. C.—Proposals for the construction of a battleship of the first-class will be received at the Navy Department until Oct. 1. A descriptive circular and the plans are now ready, and the specifications and forms of proposal and contract may be obtained on and after Aug. 15. The vessel will be of 16,000 tons displacement, and will have a sea speed of 18 knots, being driven by twin screws and triple-expansion engines.

U. S. POSSESSIONS AND CUBA.

AUTOMOBILES.—Porto Rico.—The American R. R. Co. of P. R., Ponce, is planning an automobile service between Camery and Aquadilla.

HIGHWAY.—Porto Rico.—We are informed that the governor has ordered the construction of 12 kilometers of road between Comerio and Bayamon, to cost $120,000. The contract will be let at once by the board of public works, San Juan.

ELECTRIC TIMBER.—Cuba.—The Spanish-American Light & Power Co., of Havana, proposes to extend its plant, according to reports. T. J. Heyward is Pres., 100 Broadway, New York; Chas. Woodruff is Ch. Engr.; R. Zimenez is Engr., Electrical Dept.

RAILWAY.—Porto Rico.—We are informed that De Ford & Co., of Boston, Mass., and San Juan, P. R., have been granted a franchise for a meter-gage railway between Ponce and Guayama, with an extension to Arroyo. The American R. R. Co. has been incorporated with a capital of $500,000 to build the road.

DEVELOPING LAND.—Cuba.—The American-Cuban Development Co. has been incorporated with a capital of $5,000,000 by Jas. K. Tillotson, A. Livingston and Geo. W. Flaacke, to develop about 86,660 acres of land on Cochings Bay, Santa Clara, of which about 20,000 acres have been cleared of timber.

FOREIGN CONTRACTS—EXPORT NEWS.

RAILWAY.—Spain.—The Minas y Ferrocarril de Utrillas Co., of Madrid, is making a survey for a railway from Utrillas to Zaragoza.

OIL MACHINERY.—Mexico.—It is stated that the Mexican Petroleum Co., of Camp Ebano, San Luis, Mex., wishes to purchase oil well machinery.

METALLURGICAL WORKS.—Mexico.—Reports state that Elsasser & Co. proposes to build metallurgical works at Wadley on the Mexican National Ry., San Luis Potosi.

ELECTRIC CARS.—London, Eng.—The London county council, it is stated, will soon ask for bids for furnishing electric cars for the Streatham electric road, to cost $300,000.

SHIP YARD.—Germany.—O. J. D. Hughes, U. S. Consul-General at Coburg, Germany, reports that the Vulcan Shipbuilding & Engineering Co. proposes to build new ship yards on the River Elbe.

HARBOR WORKS.—Cape Colony, Africa.—The government engineering commission of Cape Colony, Capetown, has recommended the construction of new harbor works at Table Bay, at a cost of about $17,250,000.

STEEL PLATE.—Germany.—U. S. Consul J. J. Langer, at Solingen, reports that P. D. Rasspe Solhne, Solingen 2, Germany, wants the names and addresses of U. S. firms making cast spring steel plate, used in the manufacture of saws.

HARBOR WORKS.—Indo-China.—The governor-general of Indo-China has authorized the construction of a harbor at Haiphong to include a quay 1,800 ft. long, sheds, graving docks 650 ft. long, dredging, etc., to cost about $4,200,000.

GAS PLANTS.—Japan.—It is reported that New York capitalists, represented by A. Tsion, formerly of the Japanese Imperial University, of Tokio, have purchased the gas properties of Osaha and Tokio. The new owners propose to extend the plant.

ARTESIAN WELL.—Mexico.—A. D. Barlow, Consul-General at Mexico City, reports that the governor of the State of Oaxaca has offered a prize of $5,000 Mexican money to the company that succeeds in the next three years in securing a flowing artesian well either in the towns of Oaxaca (the capitol), Xochimulco, San Felipe and Aguilera.

PUMPS, ETC.—Egypt.—The "Anglo-African Argus" reports that there is an opening in Egypt for cheap water-raising apparatus, to obviate the existing "shaloof" system, by which six men are required to hoist the contents of six buckets of Nile water to the top of a bank. The discovery of petroleum near Suez, and the cheapness of labor, will, it is stated, soon enable factories to be started, for which a demand for various kinds of machinery must arise.

MINING PLANTS.—South Africa.—Reports state that the British Trade Commissioners of Johannesburg, So. Africa, announce that large orders will shortly be placed for electric mining plants for the Rand. Merchants are willing to give preference to British manufacture in placing these orders, but warn those of them who may wish to submit tenders that the machinery must be lighter than their usual models, delivery quicker and prices lower, if they wish to successfully meet American and German competition. Manufacturing houses of both these countries recently booked several orders at remarkably low prices with a view to securing a footing in the trade of the district.

TRAMWAYS.—London, Eng.—It is stated that the London county council has authorized extensions to the tramway system, costing about $10,000,000. The Parliamentary committee on the proposed London tube railways has reported in favor of the plans of Chas. T. Yerkes for constructing underground electric lines to be built by the Underground Electric Ry. Co., Ltd. The company will begin at once to equip the Metropolitan District Ry. with electricity and to build the Brompton & Piccadilly, the Great Northern & Strand, the Charing Cross, Euston & Hampstead and the Baker St. & Waterloo Rys. The estimated cost of construction of the new lines is $45,000,000. Speyer Bros., of New York, and the Old Colony Trust Co., of Boston, Mass., are interested.

CONTRACT PRICES.

RESERVOIR, ETC.—Wellsburg, W. Va.—Jas. N. Beard, Pres. Water Bd., writes us that the following bids were received July 26, 1902, for a reservoir, etc.: (1) bid of N. C. Hunter, Wellsburg, (2) L. G. Hallock, Wheeling, W. Va., and (3) R. T. Martin, Parkersburg, W. Va. (awarded contract):

		1.	2.	3.
Excavation	7,878 cu. yds.	$0.28	$0.50	$0.33
Puddle	300 " "	1.25	1.60	3.15
Concrete	250 " "	8.00	8.00	8.60
Coping	440 lin. ft..	3.00	1.00	.96
Bricks	210 M.....	27.00	22.50	23.20
Pipe laying	790 lin. ft..	.75	.37	.46
Total		$12,163	$11,854	$11,351

CANAL WORK.—Chicago, Ill.—The following bids were received July 28 for foundation and masonry work on the Illinois & Mississippi Canal; all are local bidders except Callahan Bros. & Katz, of Omaha, Neb., and the Capital City Brick & Pipe Co., Des Moines, Ia.; Maj. J. H. Willard, U. S. Engr., Chicago, Ill.:

Bids Received at Chicago, Ill., July 28, 1902, for Canal Work; Illinois & Mississippi Canal.

Quantities.		Callahan Bros. & Katz.	Capital City Brick & Pipe Co.	Cogan & Pound.	J. A. Hinemann.	Bates & Rogers Const'nCo.	Page & Shnable.
Excavation	62,891 cu. yds.	$0.35	$0.75	$0.40	$0.375	$0.60	$0.345
Rock excavation	9,024 " "	.80	1.00	1.25	1.25	1.50	1.30
Piles in work	17,360 lin. ft..	.40	.45	.45	.40	.45	.39
Pine plank in works	57,552 ft.,B.M.	25.00	55.00	37.00	28.00	30.70	30.60
Pine timber	253,966 " "	25.00	53.00	31.00	31.00	32.40	32.40
Oak plank	3,336 " "	40.00	60.00	53.00	47.50	44.50	39.00
Oak sheeting	33,048 " "	50.00	65.00	55.00	57.00	62.00	60.00
Bolts, etc.	25,902 lbs.....	.04	.04	.055	.04	.04	.05
Natural cemt.-conc. in fndatn.	4,113 cu. yds.	6.00	5.00	6.00	5.75	5.85	5.25
Same in walls	8,703 " "	7.70	6.00	9.00	6.90	7.20	5.72
Portland cemt.-conc. in fndatn	200 " "	7.00	7.00	8.00	8.70	7.85	7.34
Same in walls	21,219 " "	8.90	8.50	14.00	8.70	9.20	7.29
8-in. drain pipe	705 lin. ft..	.40	.65	.65	.50	.30	.30
10-in. drain pipe	825 " "	.50	.70	.75	.60	.35	.42
Broken stone or gravel	945 cu. yds.	2.50	2.40	3.25	2.75	2.80	2.10
Laying c.-i. pipe:							
18-in., at 12-ft. lengths	18 lengths.	3.00	1.00	2.00	15.00	5.00	4.20
24-in., at 12-ft. lengths	36 " "	4.00	1.10	2.50	18.00	8.00	5.40
36-in., at 12-ft. lengths	18 " "	5.00	1.40	3.50	20.00	14.00	9.00
48-in., at 12-ft. lengths	36 " "	6.00	2.00	4.00	22.00	24.00	12.60
Slope paving	1,309 sq. yds.	4.00	3.00	4.00	2.50	3.50	2.15
Rubble masonry	972 cu. yds.	8.50	4.10	11.00	9.50	7.50	7.30
Back filling	91,761 " "	.20	.15	.25	.17	.30	.24
Total		$364,129	$363,642	$502,681	$358,429	$399,849	$316,372

DREDGING.—New York, N. Y.—Col. S. M. Mansfield, U. S. Engrs., Army Bldg., received the following bids July 28, 1902, for 100,000 cu. yds. of dredging in the Hudson River; only 80,000 yds. will be dredged, as the amount available is $20,000: Kirk, Driscoll & Co., National Commercial Bank Bldg., Albany, 28 cts.; Newburgh Dredging Co., Newburgh, N. Y., 28 cts.; Morris & Cumings Dredging Co., 17 State St., New York, 25¾ cts.

PAVING.—Cedar Falls, Ia.—T. R. Warriner, Cy. Engr., writes us that the Likes Improvement Co., of Des Moines, Ia., has been awarded the contract at $1.21 a sq. yd. for about 17,454 yds. of brick paving on macadam foundation, 16 cts. a cu. yd. for grading and 16 cts. a lin. ft. for cement curb.

PIPE SEWERS.—Columbia, Mo.—John S. Bicknell, Cy. Clk., writes us that Wm. Walker, of Columbia, has been awarded the following contract for 8,000 ft. of pipe sewers: 8-in., 6-ft. cut, 3,441 ft., 50 cts.; 8-in., 10.5 ft. cut, 1,700 ft., 55 cts.; 8-in., 13-ft., cut., 430 ft., 85 cts.; 8-in., 17-ft. cut, 400 ft., $1.25; lampholes, 11, $8 each; flushtank, $73; manholes, 10, $35 each; rock excavating, 25 yds., $2.40; concrete, 15 yds., $5; total, $4,167. Jas. H. Guitar, Columbia, was awarded the contract, at $1.957 for sewers in District No. 9.

LAYING WATER PIPE.—Weston, Mass.—The Metropolitan Water Board received the following bids July 25 for laying water mains in Newton and Westoft; contract awarded Ward & Cummings; all bidders of Boston, except E. W. Everson & Co., Roxbury, Mass., and Dennis F. O'Connell, Dorchester, Mass.:

Bids Received at Weston, Mass., July 25, 1902, for Laying Water Mains in Newton and Weston.

Quantities.		Ward & Cummings.	Metropolitan Contg. Co.	E. W. Everson & Co.	Dennis F. O'Connell.	Bruno, Salomone & Petitti.	Moore & Co.
For cofferdam, pumping and draining		$14,887	$14,500	$15,000	$27,800	$12,300	$20,000
Laying 60-in. c.-i. pipe, west Sta. 16+55....	1,500 lin. ft..	$3.25	$4.50	$4.00	$3.85	$3.95	$9.00
East Sta. 16+55, crossing Charles River..	1,060 " "	4.85	6.50	7.50	2.80	19.50	8.00
Laying 48-in. cast-iron pipe	80 " "	3.00	3.50	3.50	2.50	3.00	8.00
" 36-in. " "	20 " "	2.90	3.50	3.00	2.00	2.00	8.00
" 16 and 20-in. pipe for blowoffs	190 " "	1.50	2.50	1.50	1.50	1.00	6.00
Rock excavation	200 cu. yds.	4.00	4.25	4.00	3.50	4.00	4.50
Earth excavation for grading	1,300 " "	.80	.50	.50	.90	.75	1.00
Setting air valves	2 each...	10.00	5.00	10.00	5.00	3.00	3.00
Chamber for 36-in. valve		98.00	80.00	100.00	75.00	80.00	75.00
" for blowoffs, air valves and manholes	8 each...	65.00	50.00	60.00	50.00	50.00	75.00
Concrete masonry	800 cu. yds.	7.00	4.00	7.50	7.00	7.50	7.50
Total		$33.564	$34,155	$37,625	$45,023	$47,626	$52,801

ENGINE, GENERATORS, ETC.—Providence, R. I.—We are informed that bids were received July 28, 1902, for furnishing the following electrical pumping plant for the slow sand filtration plant at the Pettaconsett pumping station: one 75-HP. engine at 80 lbs. pressure, from 275 to 325 revs. per min; one D. C. generator, 50 K-W., 275 to 325 revs. per min. for direct coupling to engine, connected from generator to switchboard; one switchboard, Pc. Munson slate, 4 × 6 ft. = 24 ft. × 1½ ins.; one main switch 100 amperes, 500 volts, D. P. S. T.; two connecting bars in back of board; one volt meter 0—650 volts, 1 ammeter 0— 150 amperes.; iron pipe standards and frame; two pilot lamps; one ground detector; 2,000 ft. of line construction, from boiler house to Corliss engine house, the line to be of lead encased conductor, laid underground, thence swung across the river to pole line, with waterproof line wire, stranded conductor, the whole to be not less than No. 00. wire; two 40-HP. 500-volt D. C. motors, connected to two 24-in. centrifugal pumps 24-in. suction and discharge, with gate in discharge and foot valve on suction, the motors to be right and left, the pumps to be right and left also; the pumps to be arranged for either belt or direct coupling. The pump in operation to run from 110 to 130 revs. per min., water to be raised 7 ft., which is equivalent to raising from 12,000,000 to 20,000,000 gals. of water in 24 hours. Switchboard with pressure and current indicators—starting switch, set 500 volts, fuses and blocks, slate board 3 ft. × 3 ft. × 1¼ ins. thick, one volt meter 0— 650, one ammeter 0— 100, labor erecting switchboard, frame and standards for switchboard, erecting; one controller for changing speed of motor, the same as now used on car platforms. Proposals will be received for a plant with any other size or form of pump that will be fully guaranteed to perform the above-named work. The delivery and installing of the engine and generator and the line construction ready for use shall be made in 30 days from date of contract, the pumps and motors, etc., shall be installed within 90 days of same time. The whole to be furnished and erected in perfect running order. The plant shall be run 60 days on trial before acceptance of same, and the contractor shall make satisfactory guarantee for good work and efficient performance of the plant. Robt. E. Smith, Comr. Pub. Wks. The bids were as follows: Chase-Shawmut Co., Boston, Mass., $8,650 (accepted); Goulds Mfg. Co., Seneca Falls, N. Y., $10,350; Westinghouse, Church, Kerr & Co., Boston, Mass., $12,133 and $11,880; Bowen Electric Co., Providence, $13,000.

GRADING.—Milwaukee, Wis.—William Gutknecht has been awarded the contract, at 30 cts. a yd., for 3,996 yds. of grading, and at 27 cts. a cu. yd. for docking 3,252 yds. on Seely St.

PIPE SEWERS.—Parkersburg, W. Va.—Jesse L. Cramer, Cy. Clk., received the following bids July 23, 1902, for pipe sewers; trenching in sand and loam; bidders of Parkersburg:

Quantities.		David Boyles.	J. W. Curry 8-in.	J. W. Curry 15-in.
15-in. sewer pipe	2,725 lin. ft..	$0.60	.....	$0.40
8-in. sewer pipe	2,210 " "	.25	$0.16	.....
Excavatn and filling:				
8 to 10 ft.	2,810 cu. yds.	.52	.65	.80
10 " 12 "	1,925 " "	.60	...	...
12 " 14 "		.65	...	.90
14 " 16 "		.80	...	...
16 " 18 "	200 " "	1.00	...	1.25
18 " 20 "	200 " "	1.20	...	1.25
15 × 4 Y's	100 each...	2.00	...	.95
8 × 4 Y's	85 " ...	.65	.65	...
Flushtanks	3 " ...	46.00	45.00	45.00
Manholes	16 " ...	37.50	40.00	40.00
Lamphole		8.00	6.00	6.00
Lumber in place, a M ft., B.M.		27.00	30.00	30.00
Total		$6,041	$6,206	

SEWERS.—Zanesville, O.—The following bids were received July 26, 1902, for constructing a brick sewer, etc.: 14-ft. brick sewer—Evans & Dunzweiler, $4.68; Adams Bros., $4.50; Petit & Abele, $4.58; F. M. Townsend, $4.60; 12-in. pipe sewer—Evans & Dunzweiler, $1; Petit & Abele, $1; F. M. Townsend, $1.10; catch-basins, including traps and connections complete, each—Evans & Dunzweiler, $50; Adams Bros., $25; Petit & Abele, $27; F. M. Townsend, $30; manholes, complete each—Evans & Dunzweiler, $35; Adams Bros., $25; Petit & Abele, $46; F. M. Townsend, $50; catch-basins, old style—Petit & Abele, $45; brick masonry, per cu. yd.—Evans & Dunzweiler, $7.50; Adams Bros., $6; Petit & Abele, $7; F. M. Townsend, $7.

WATER-WORKS.—Mannington, W. Va.—The following contracts were let July 23, 1902, for furnishing the materials and for building water-works: U. S. Cast-Iron Pipe & Foundry Co., Cincinnati, O., 1,900 ft. 10-in. c.-i. water pipe, $31.85 per net ton, 1,500 ft. 8-in., $33.85; G. R. Miner Construction Co., Salem, W. Va., all work, laying and trenching, 10-in., 49 cts. a lin. ft., laying 8-in. pipe, 38 cts.; J. B. Clow & Sons, Chicago, Ill., Eddy hydrants, 6-in., two-hose and one steamer opening, $30, 10-in. valves $25, 8-in. $8, roadway boxes $3.10. The work will be carried on under the direction of C. E. Compton, formerly Supt. W.-W. at Grafton, W. Va.

ROAD WORK.—Allentown, Pa.—We are informed that the following bids were received Aug. 4 by the commissioners of Whitehall township, Lehigh county, for grading and macadamizing about 3½ miles of public highway; Lehr & Son awarded contract: Lehr & Bascom, Engrs.:

Items.	A. P. & Con. Co.	J. L. Lehr & Son.	A. M. Stephens.
Macadamizing	$1.07	$1.25	$1.87
Without telford	.95	1.12	.....
Guard posts and rails	.50	.45	.20

ELECTRIC LIGHTING.—Raleigh, N. C.—The Raleigh Electric Ky. Co. has been awarded the contract at $55.75 an arc light for furnishing 155 lights. The city at present pays $74.75 a light for 79 lights. The company will probably soon be granted a 25-year franchise.

SEWER.

PEORIA, ILL., AUG. 4, 1902.

Sealed bids will be received by the Board of Local Improvements of the City of Peoria, Ill., in the office of the Commissioner of Public Works of said city, until two (2) o'clock p.m. of Thursday, Aug. 21, 1902, for furnishing all labor, material, appurtenances, etc., for the construction of the Persimmon St. Sewer System in the City of Peoria, Ill., in accordance with the plans, profiles and specifications on file in the office of the City Engineer of said city.

The following is the approximate estimate of the amount of work:

2,840 lin. ft. 8-in. sewer pipe;
670 " 12-in. " "
1,290 " 13-in. " "
880 " 18-in. " "
930 " 20-in. " "
420 " 2' 2" × 3' 3" brick sewer;
430 " 2' 6" × 3' 9" " "
425 " 2' 10" × 4' 3" " "
440 " 3' × 4' 6" brick sewer;
38 storm water inlets;
26 manholes.

Proposals must be made out upon blanks furnished at the office of the City Engineer, and be addressed to E. A. Furry, President, and be endorsed "Proposals for Persimmon St. Sewer." Each proposal must be accompanied by a certified check for an amount not less than ten (10%) per cent. of the total amount of the bid, and made payable to the order of E. A. Furry, President of the Board of Local Improvements. Payments will be made in accordance with the terms of an Act of the General Assembly of the State of Illinois, entitled, "An Act Concerning Local Improvements," approved June 14, 1897, in force July 1, 1897, and acts amendatory thereto.

The Board of Local Improvements reserve the right to reject any or all bids or award the contract to the property owners as provided by law. For specifications and proposals, address H. E. Beasley, City Engineer.

E. A. FURRY,
H. E. BEASLEY,
JOHN GORMAN,
WALTER MURRAY,
CHAS. A. WEIBERG,
32-2t Board of Local Improvements.

BRICK PAVEMENT.

PARIS, ILL., AUG. 2, 1902.

Sealed proposals for 15,200 sq.yds. of Brick Paving on concrete foundation, 2,000 lin. ft. Stone Curbing, 6,100 ft. of Combined Curb and Gutter, will be received by Z. T. Baum, President of the Board of Local Improvements of the City of Paris, Ill., at the City Engineer's Office, up to 7:30 p.m., Aug. 14, 1902.

Certified check of 10% must accompany bid. Contractor will be paid in cash and 5% bonds. Proposals and specifications can be had from City Engineer.

Z. T. BAUM,
President of Board of Local Improvements.
W. C. LEMEN, City Engineer. 32-1t

FLAGGING.

HASBROUCK HEIGHTS, N. J.

Sealed proposals will be received by the Mayor and Council, in Pioneer Hall, Borough of Hasbrouck Heights, N. J., Monday, Sept. 15, at 8 p.m., for furnishing and laying 1½-in. 2-ft. 4-in. × 4-ft. wide flagging:

Jefferson Ave. ..... 4,400 lin. ft.
Central Ave. ..... 900 "
(More or less.)

A certified check for $200, payable to order of Mayor and Council, must accompany each bid.

The Mayor and Council reserve the right to reject any or all bids.

Plans and specifications can be seen at office of Lemuel Lozier, Engineer, Trust Building, Hackensack, or at office of undersigned in Hasbrouck Heights.

G. H. RAMSDEN,
32-4t Borough Clerk.

OFFICE WASHINGTON AQUEDUCT, Washington, D. C., Aug. 5, 1902.—The opening of bids for Washington Filtration Plant is postponed until further notice. A. M. MILLER, Lieut.-Col., Engrs. 32-1t

SEWERS.

OFFICE OF THE SEWERAGE AND WATER BOARD, 602 CARONDELET STREET, NEW ORLEANS, LA., May 26, 1902.

Sealed proposals will be received until 12 m. Tuesday, Aug. 12th, 1902, for the construction of approximately 98 miles of Sewers and appurtenances, of which 8 miles will be Brick Sewers from 72 to 27 ins. in diameter, laid from 10 to 24 ft. in depth, and 90 miles will be Pipe Sewers from 30 to 8 ins. in diameter, laid from 5 to 20 ft. in depth. There will be approximately 1,150 Manholes and 520 Flushtanks.

The above work will be divided into three contracts, and a certified check for $15,000 must be deposited with bid on each contract.

A surety company bond for an amount equal to 25% of the gross amount of each contract will be required of the successful bidder in each case.

Specifications, general plans and blank forms of proposals may be obtained at the office of the Board. After June 20th plans and specifications can also be seen at the office of Hering & Fuller, Consulting Engineers, No. 170 Broadway, New York.

The right is reserved to reject all bids.

F. S. SHIELDS, Secretary.
GEO. G. EARL, General Supt. 23-10t

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